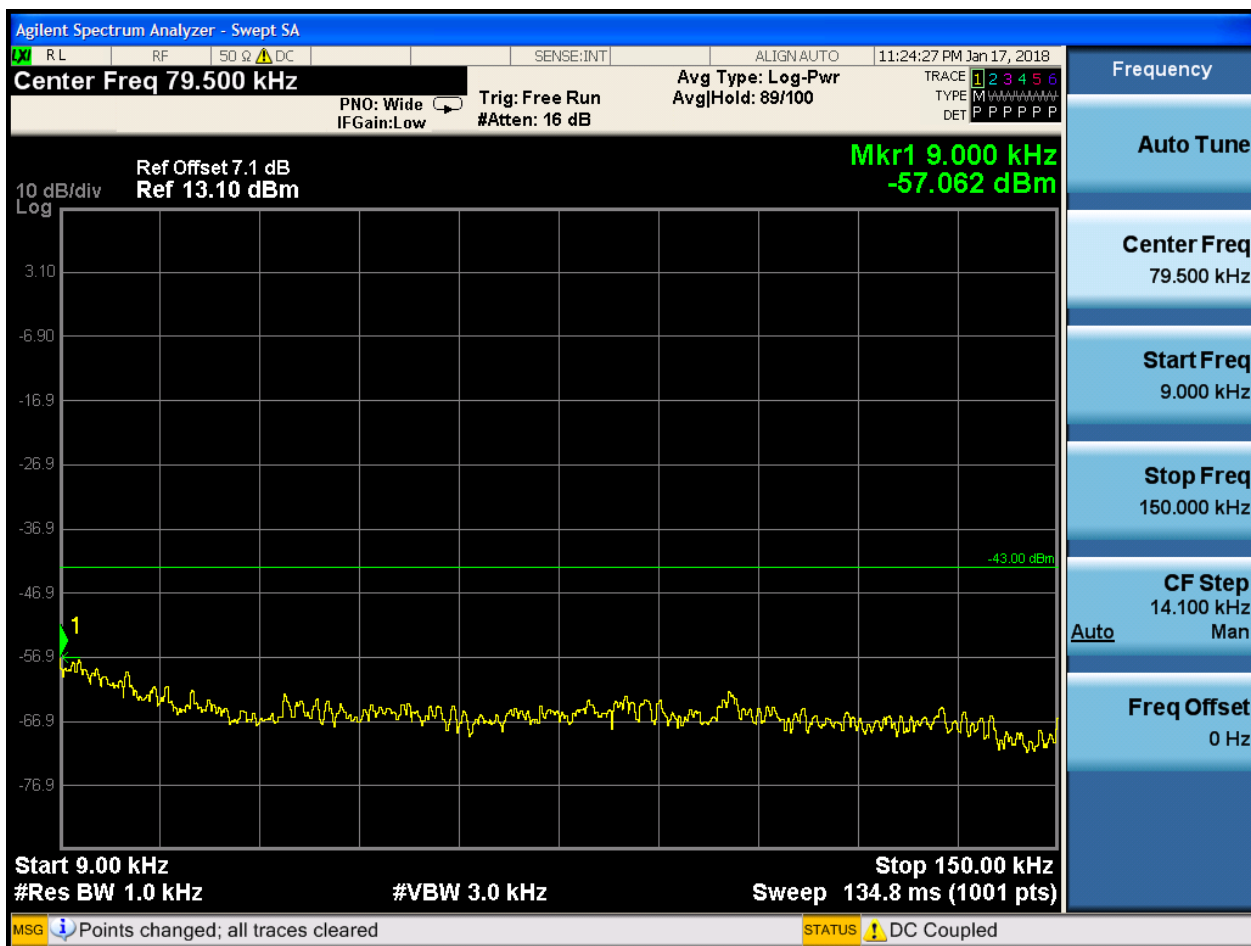
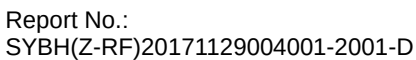
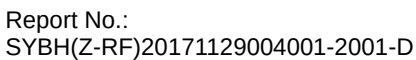


6.1.1.1.6.3 Test Channel = HCH

6.1.1.1.6.3.1 Test RB = RB1#0





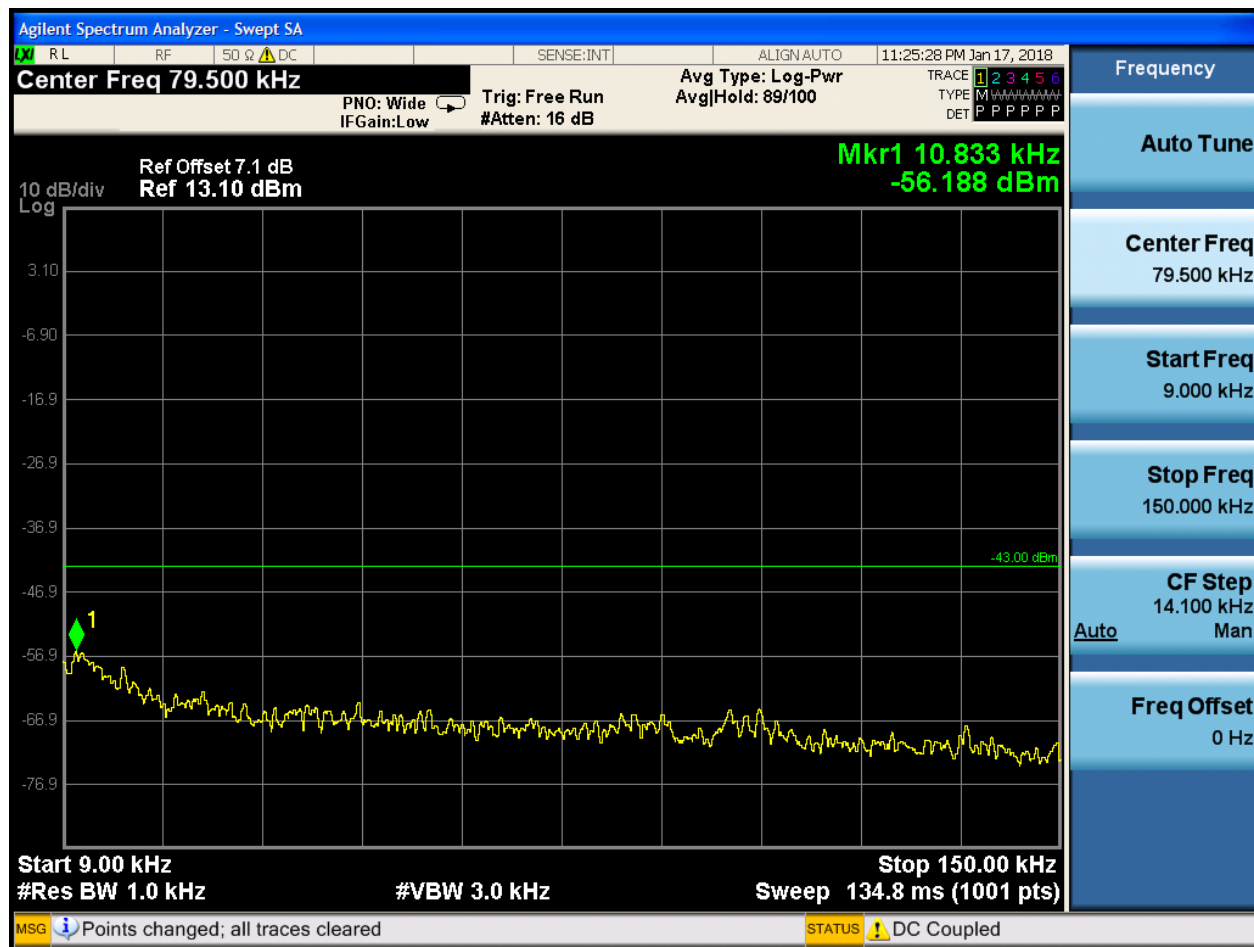


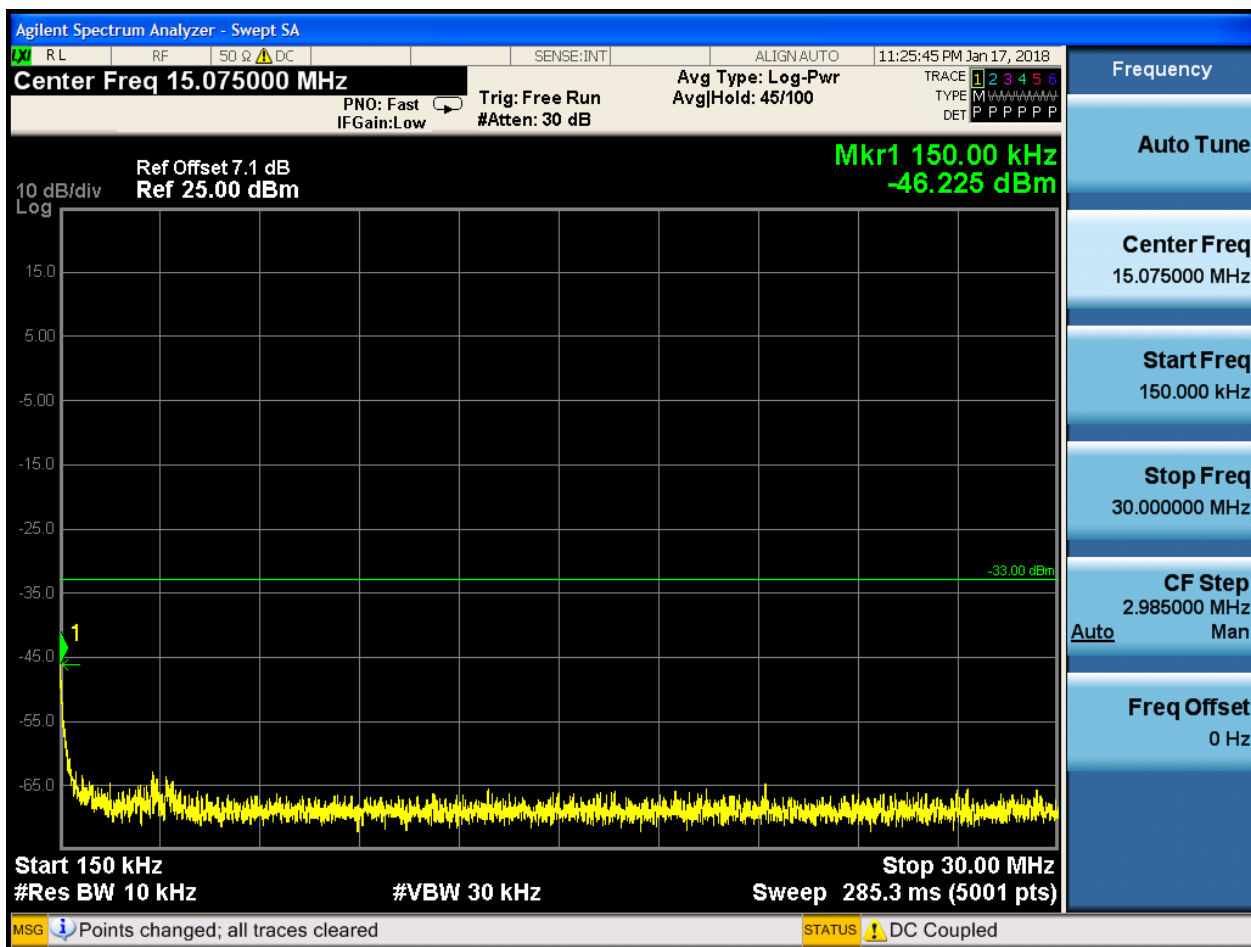
6.1.1.2 Test Mode = LTE/TM2

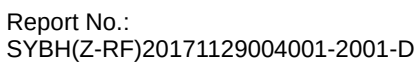
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

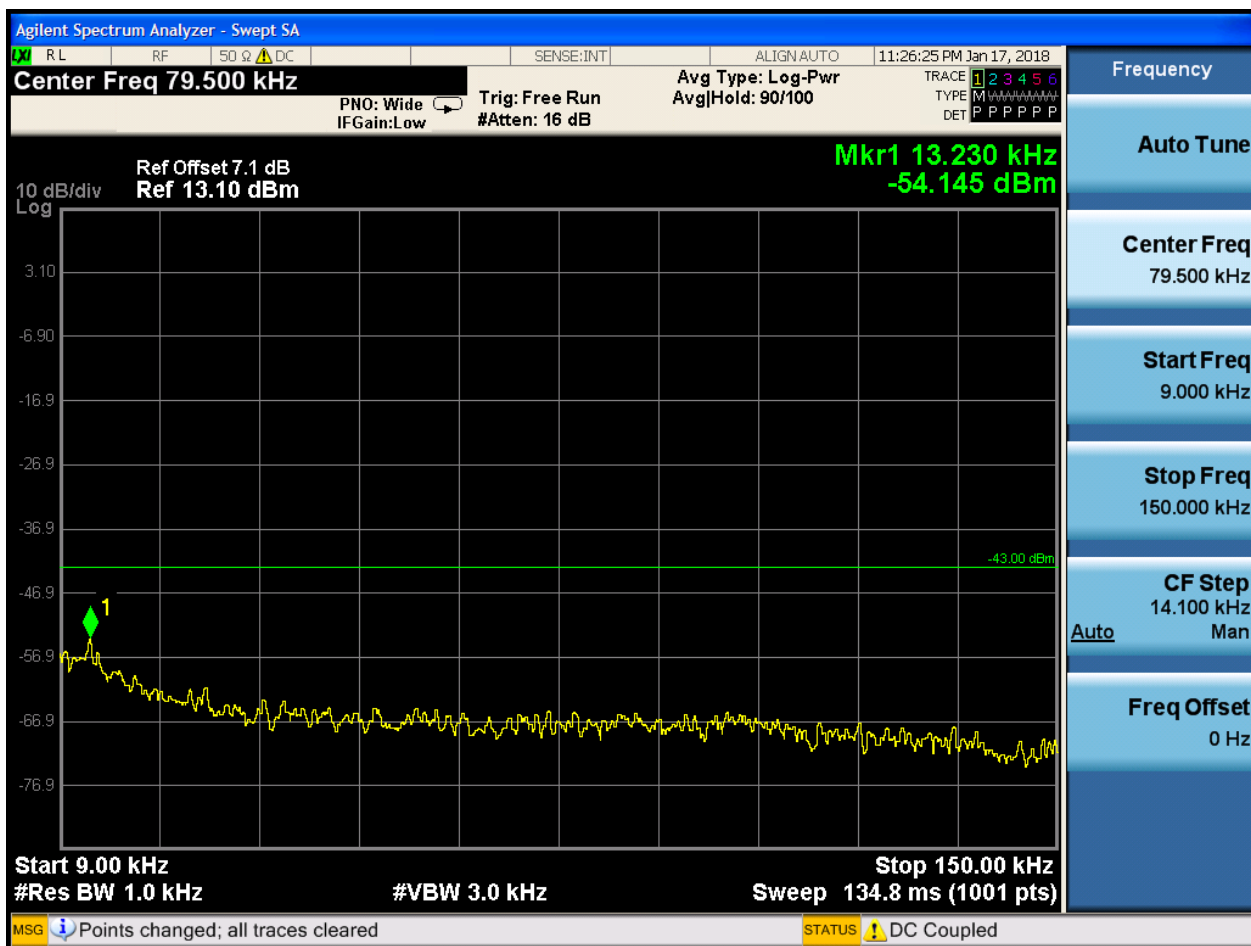


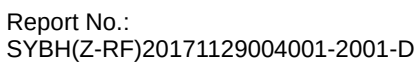


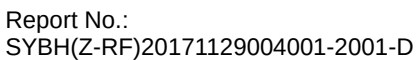


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

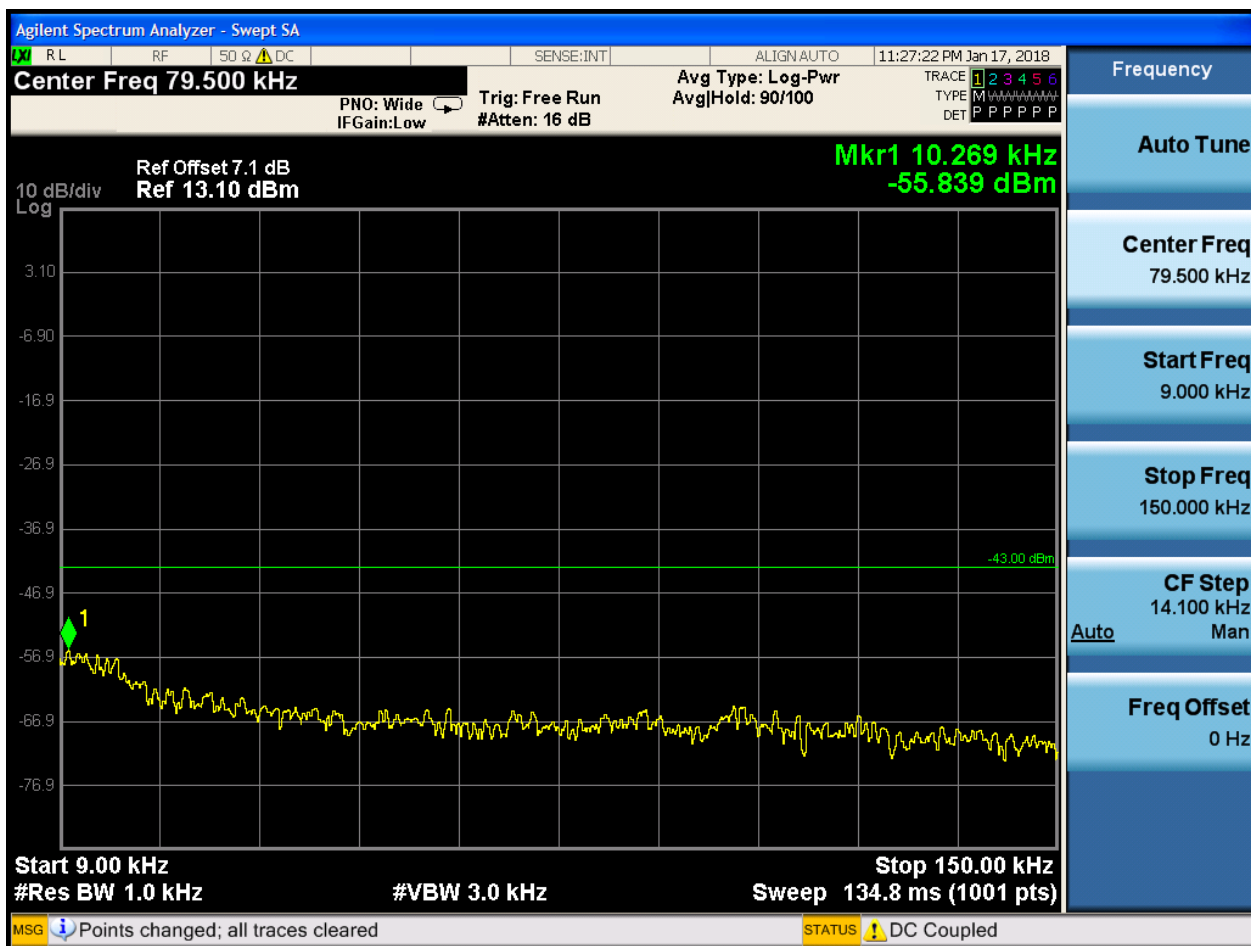


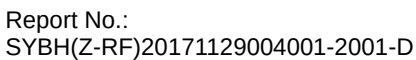


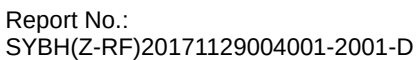


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



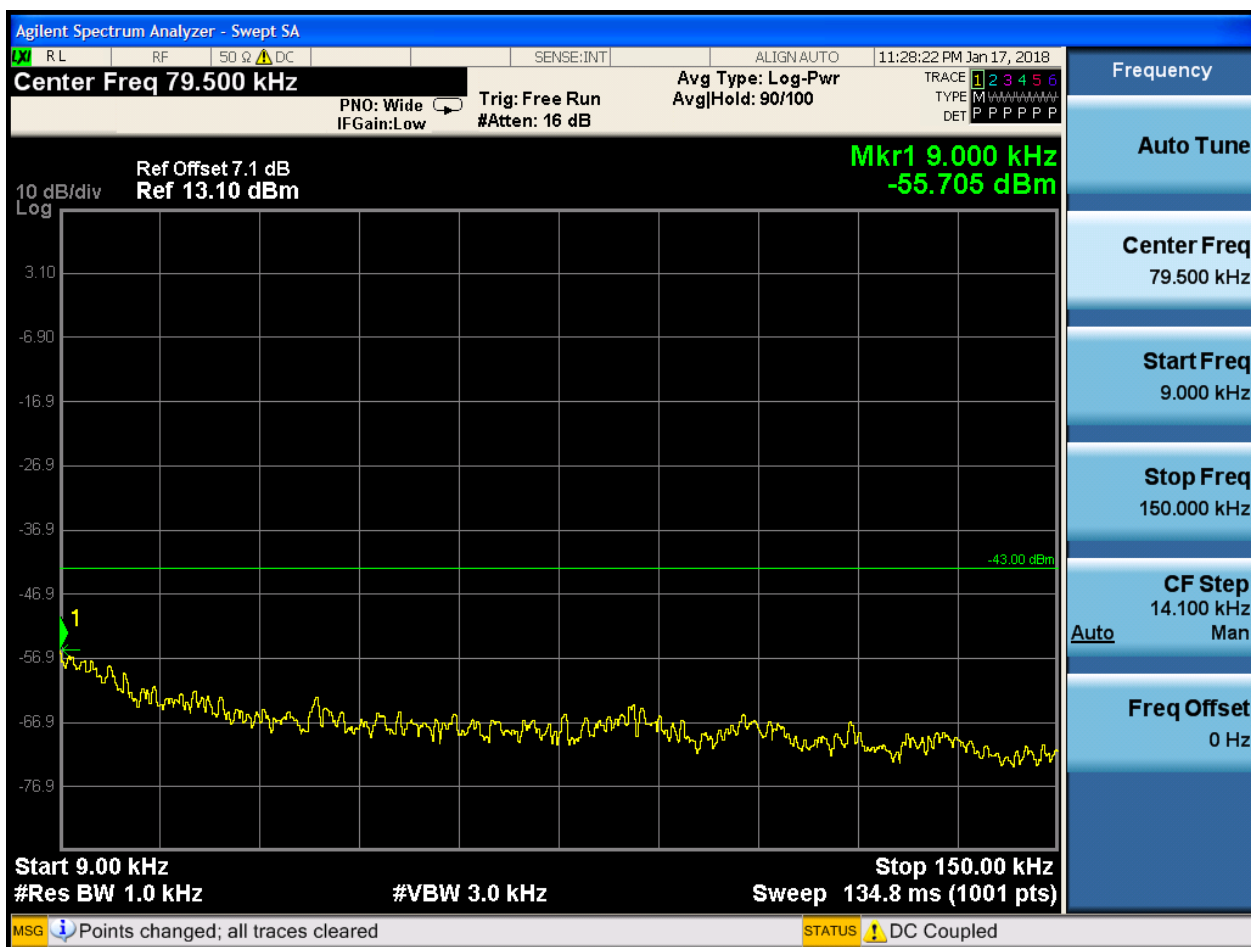


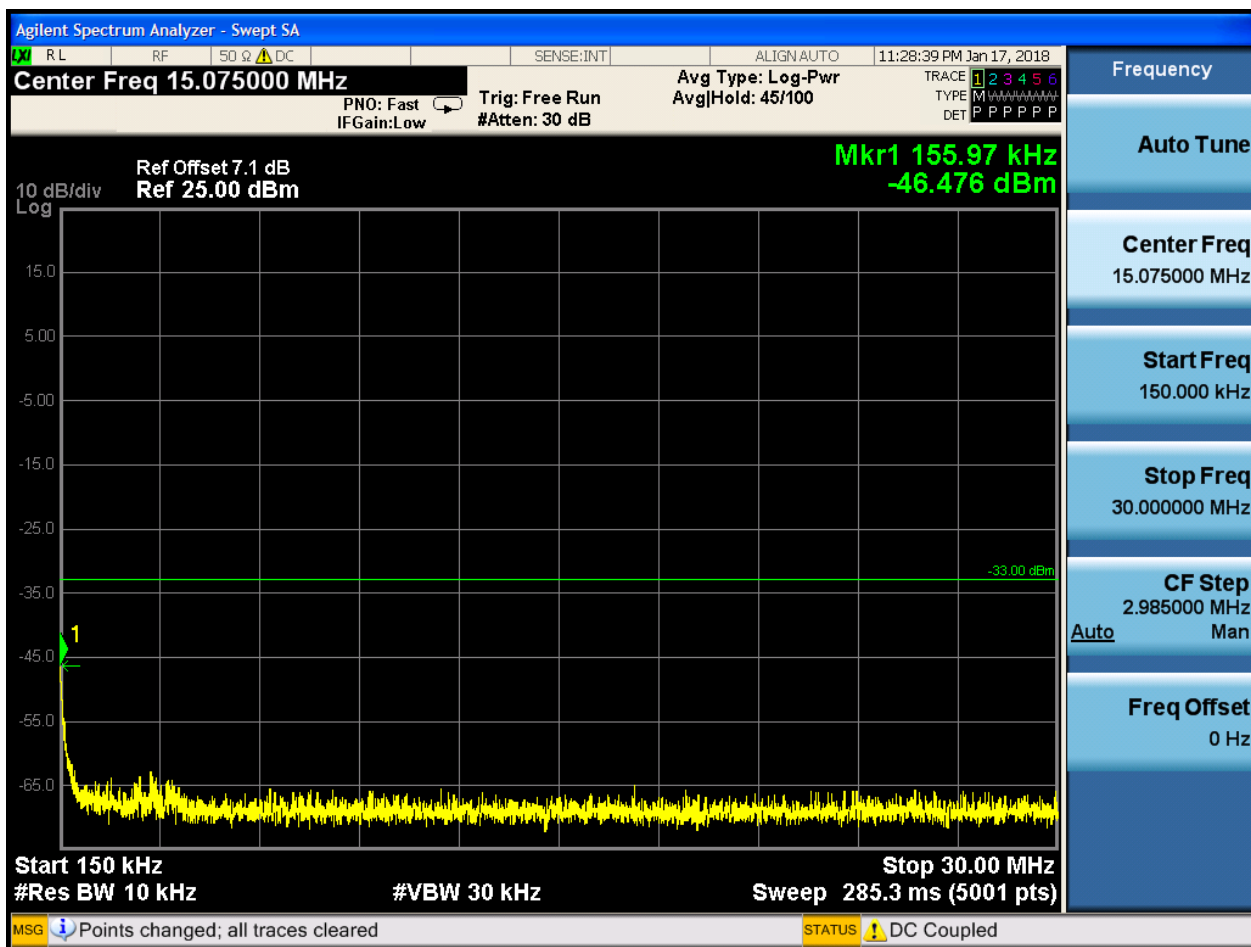


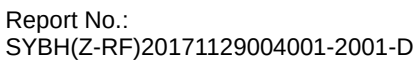
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



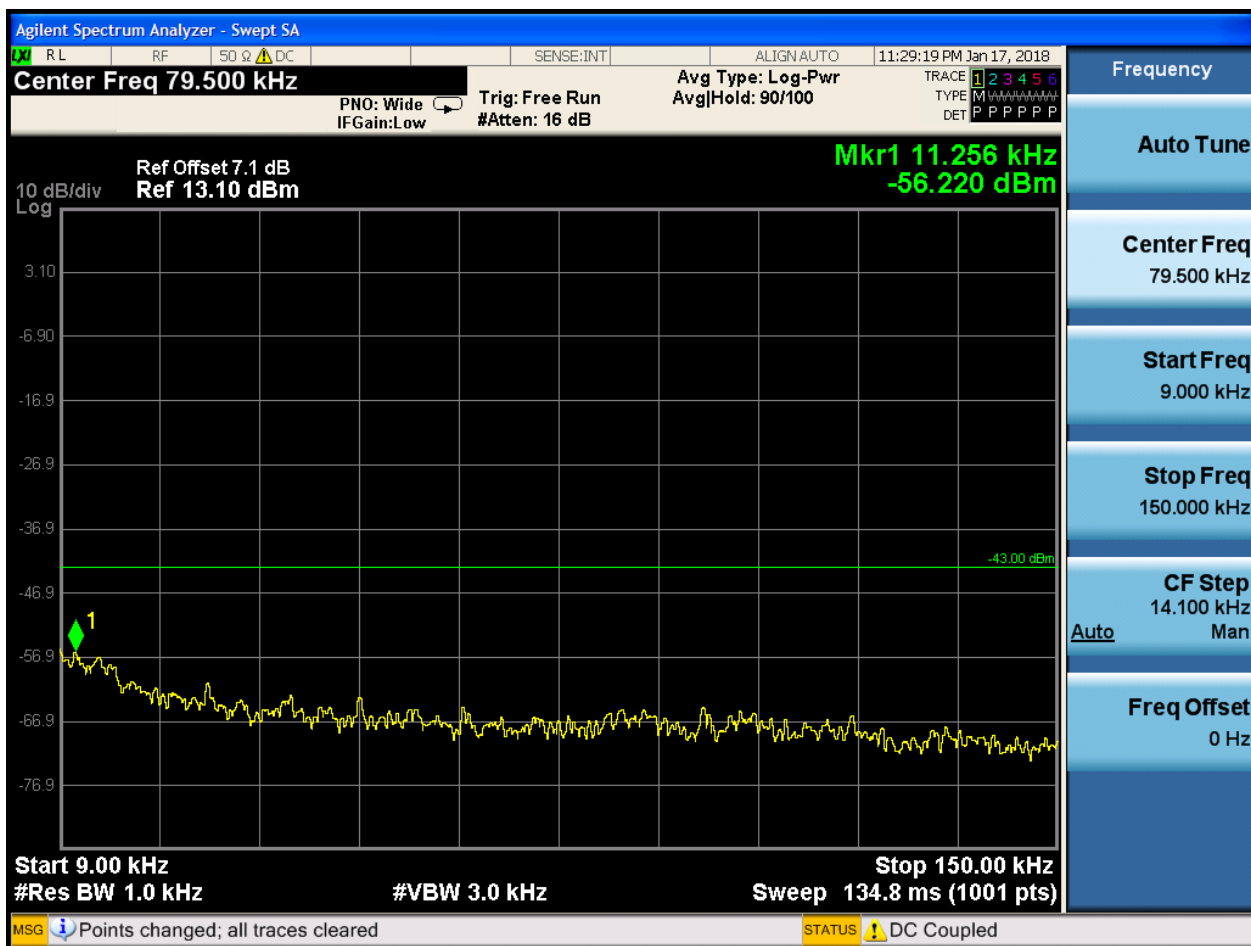


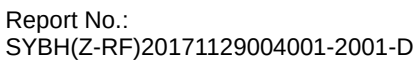


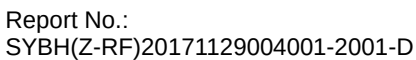


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

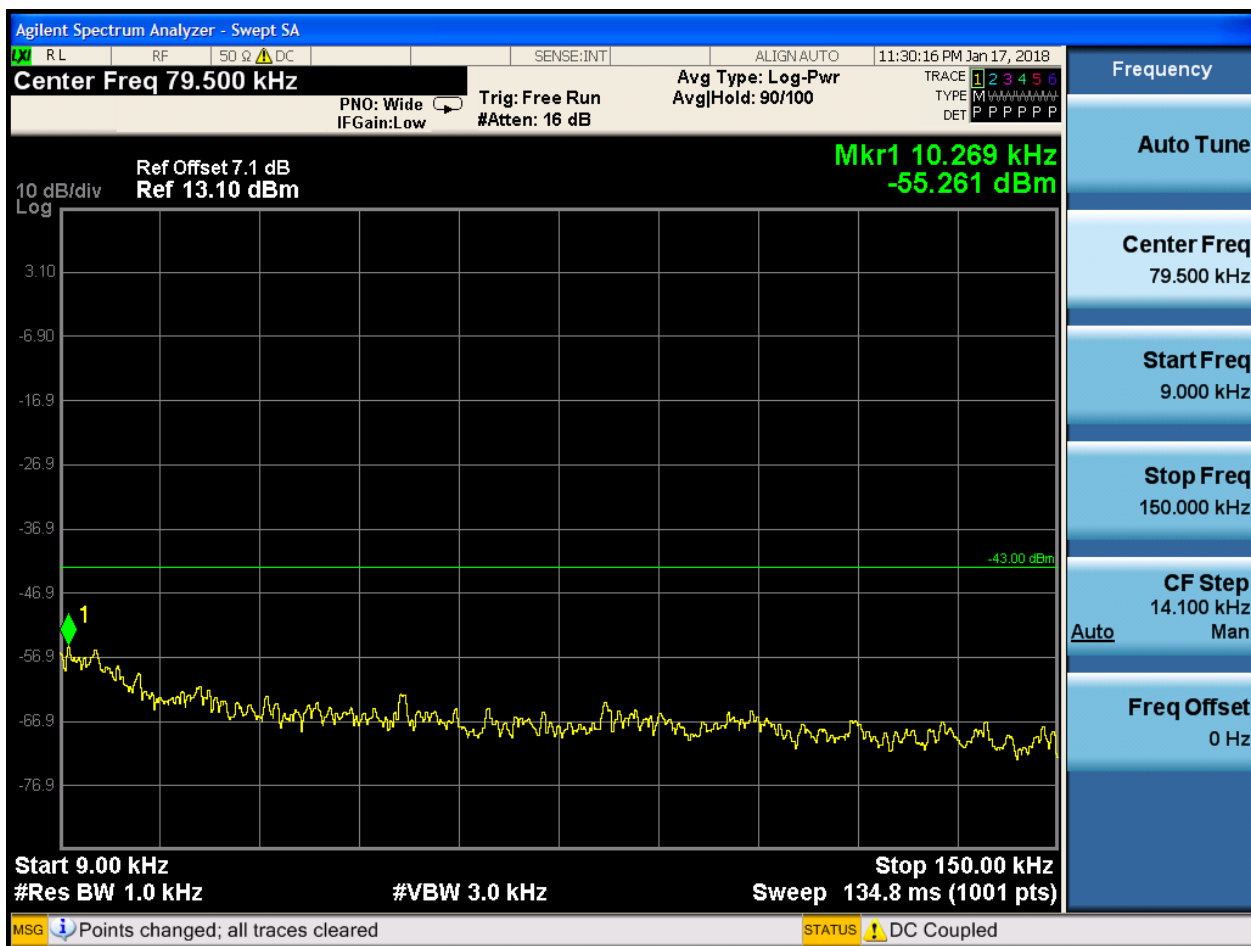


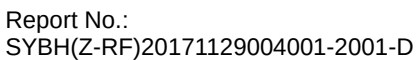


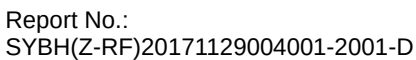


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



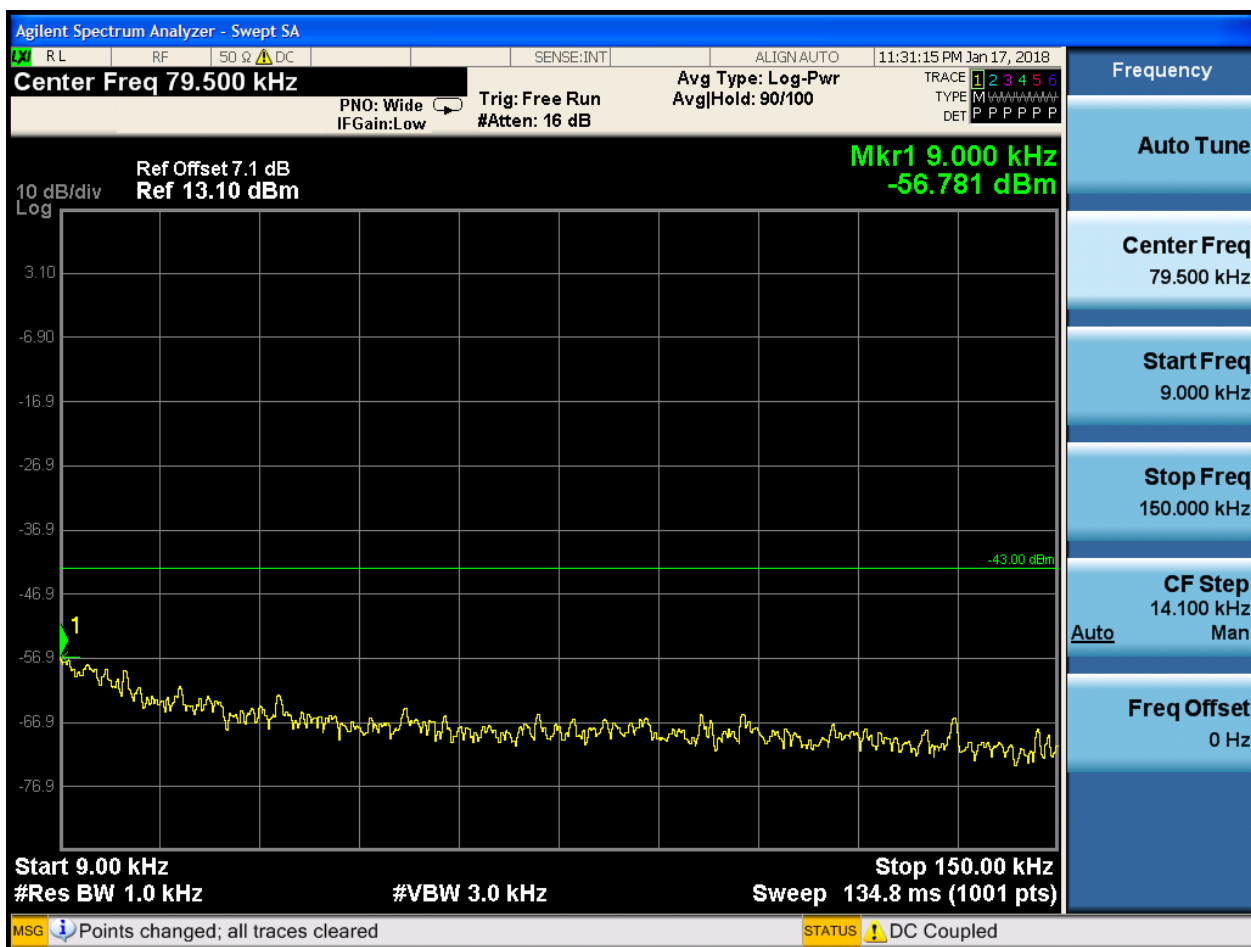


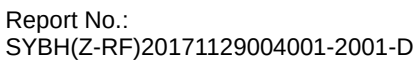


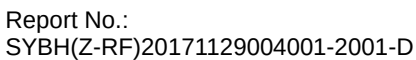
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

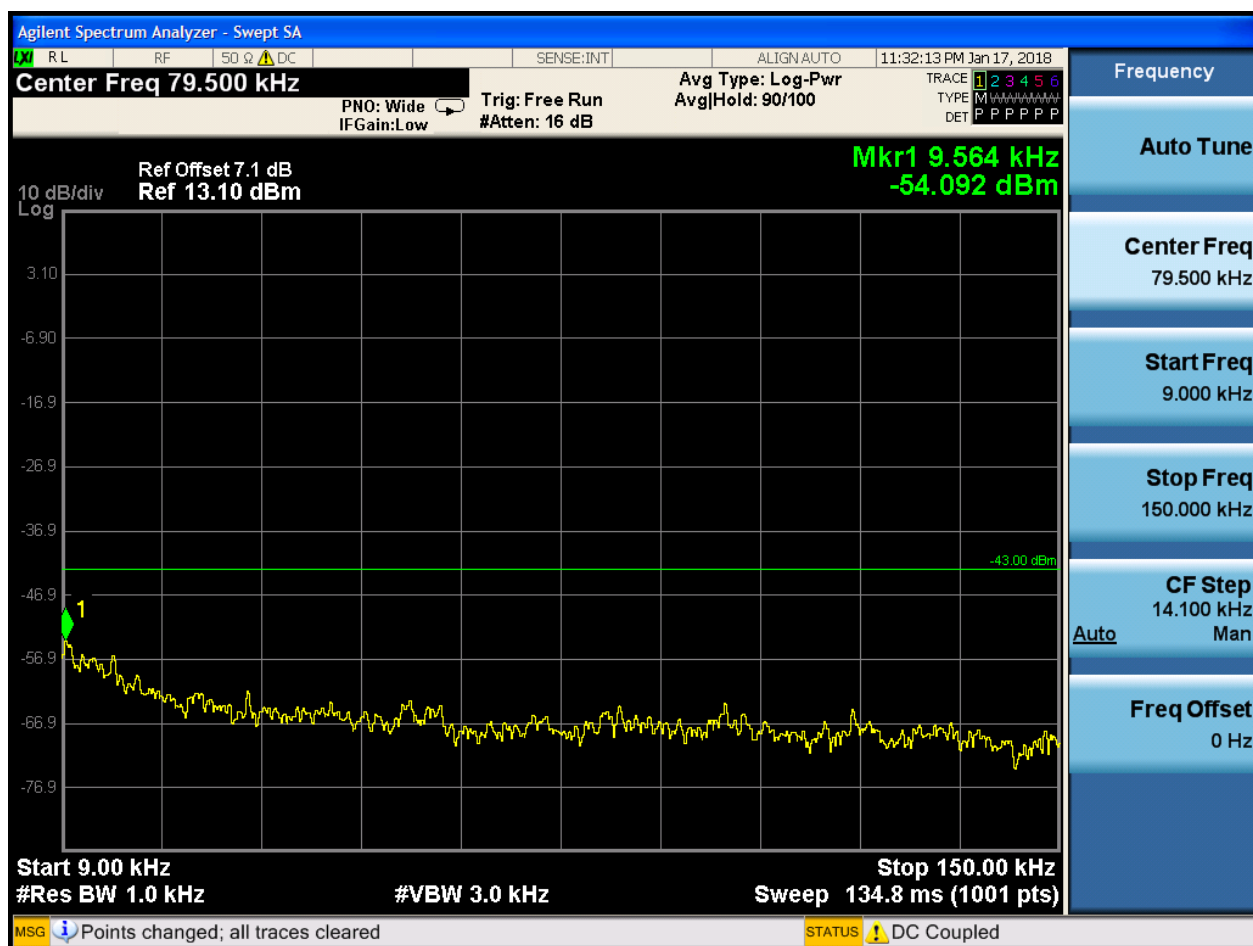


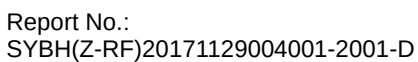


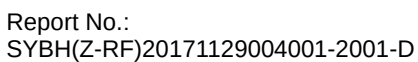




6.1.1.2.3.2.1 Test RB = RB1#0



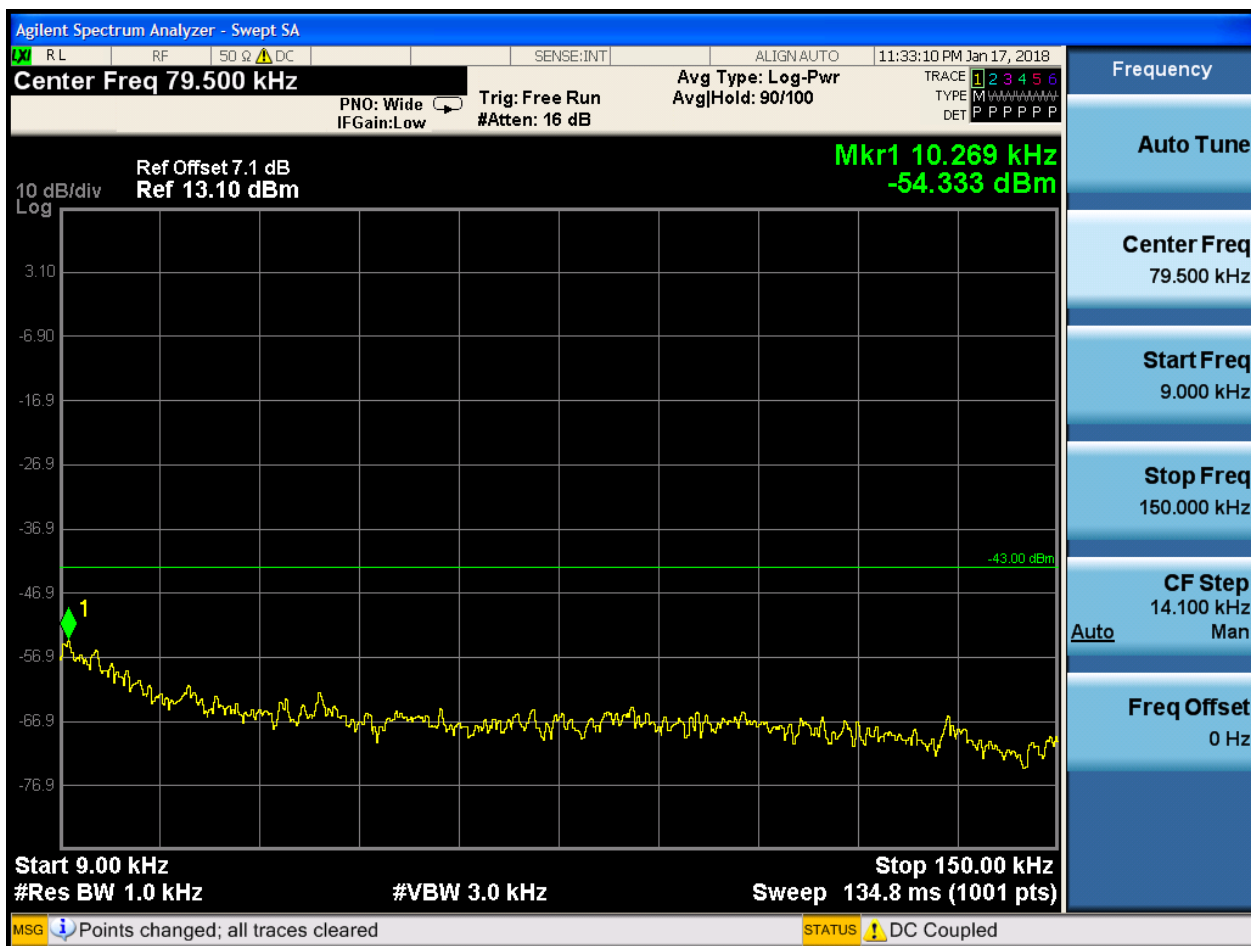


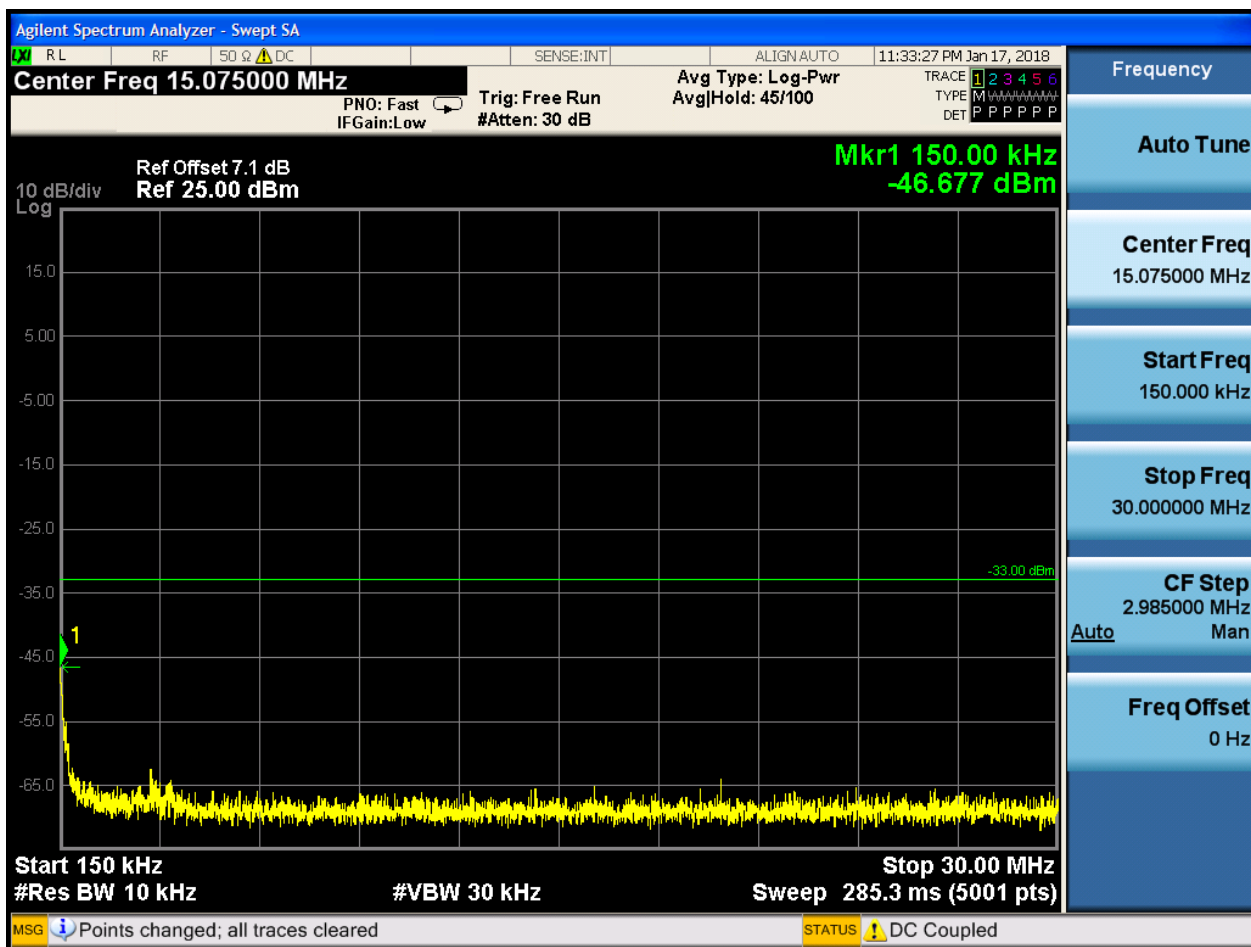


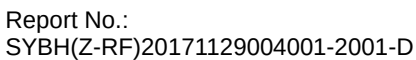


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





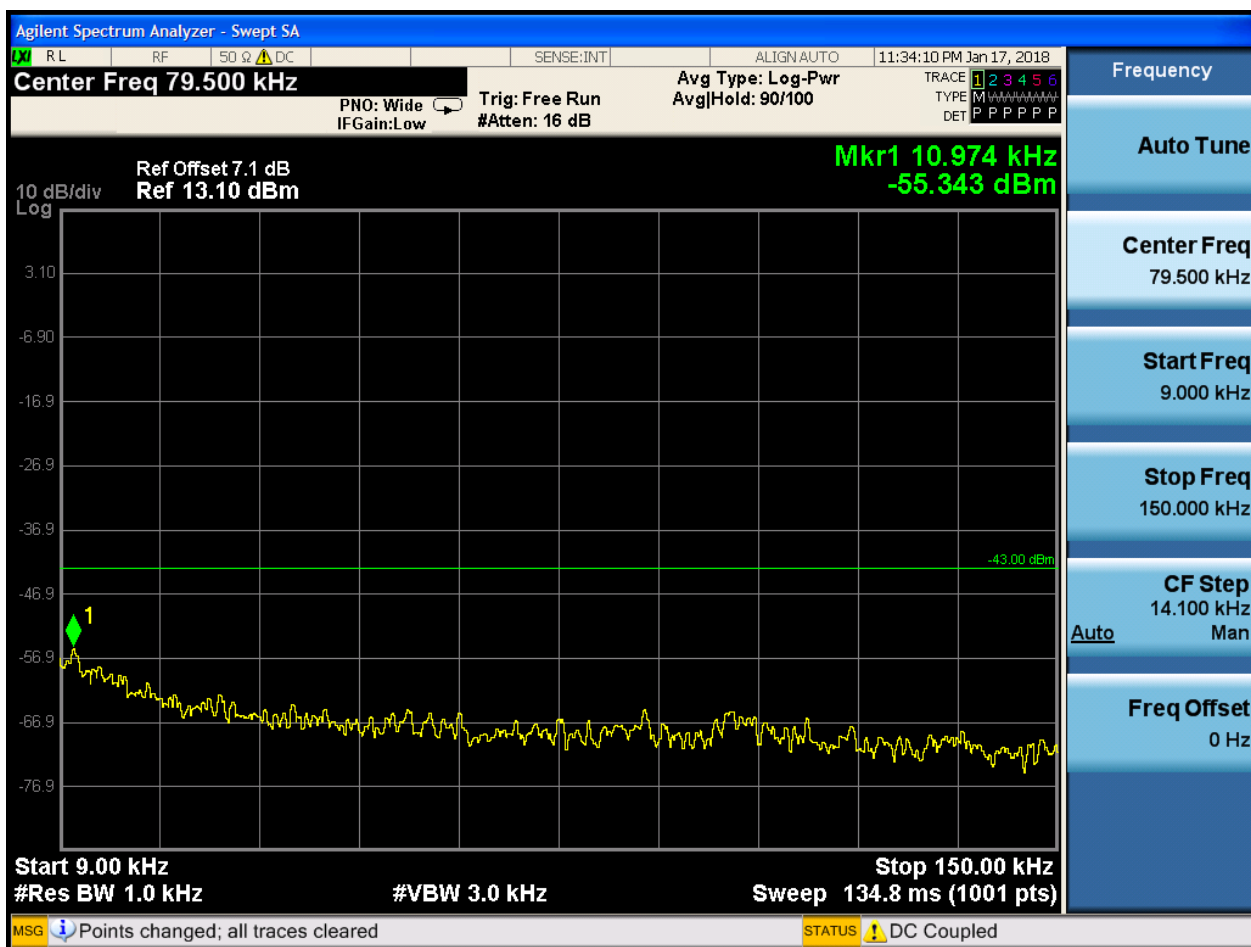


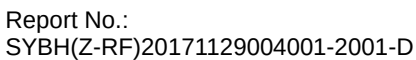


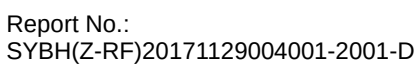
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

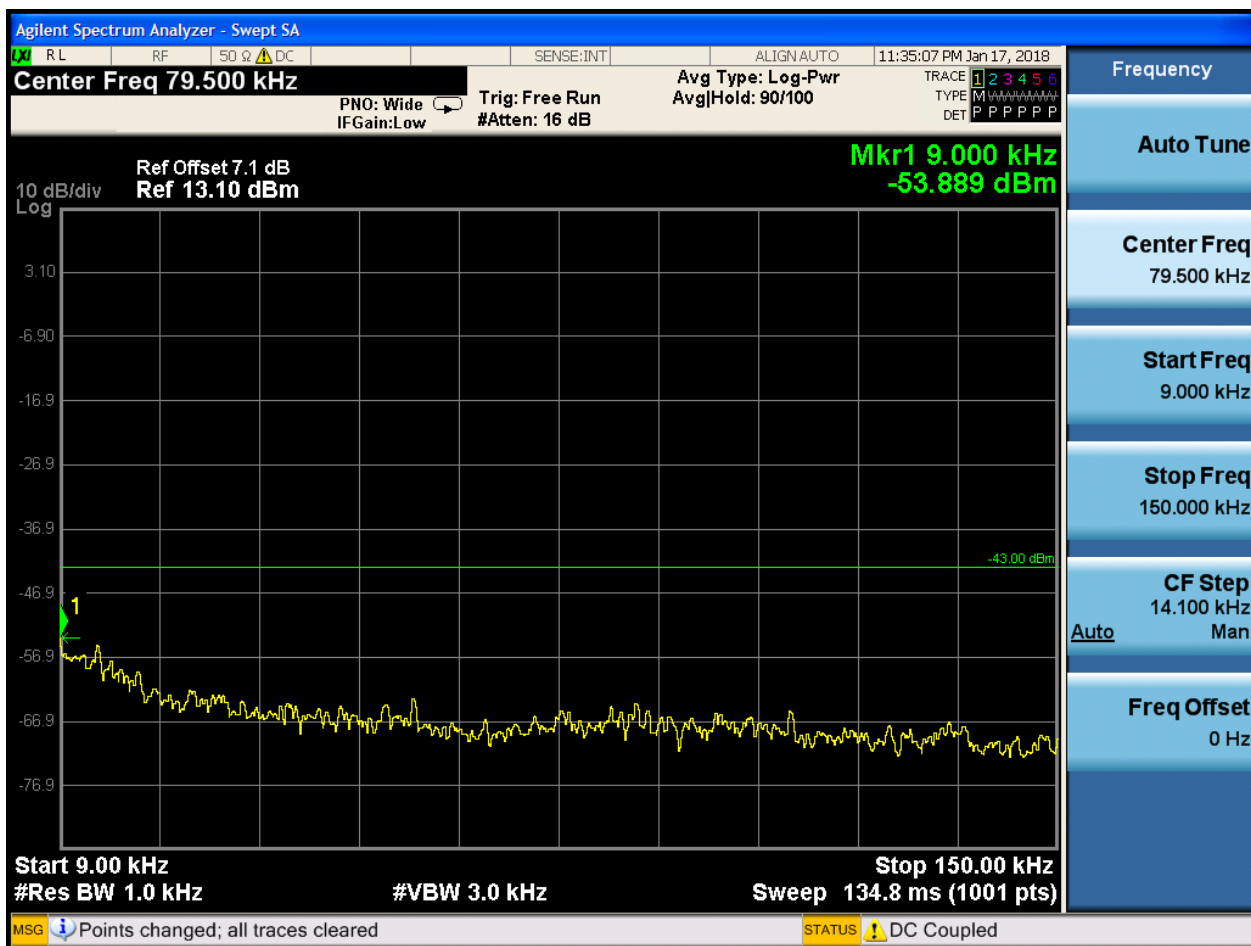


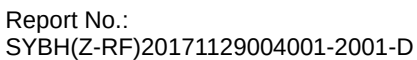


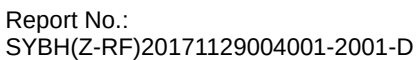


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

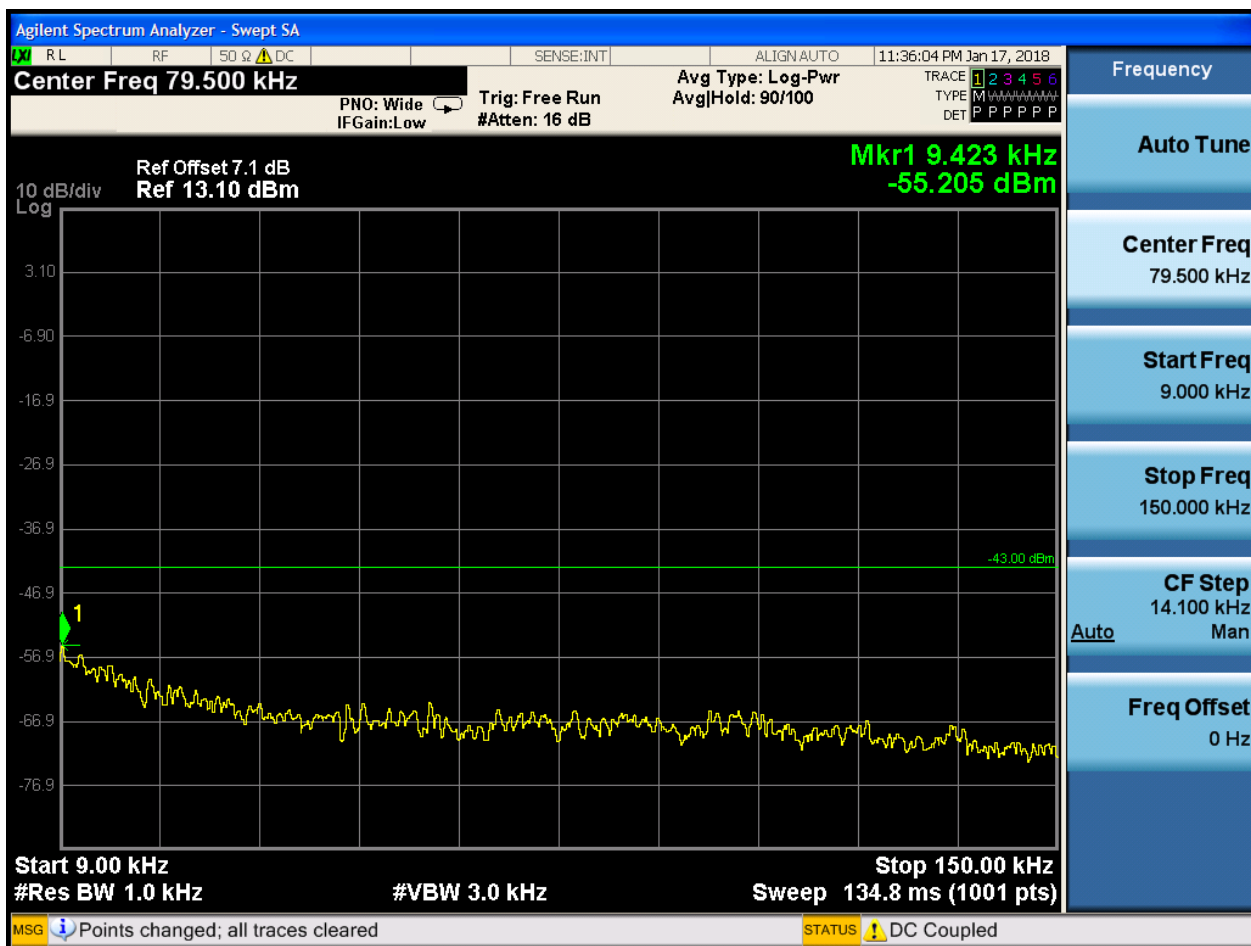


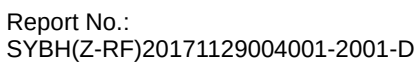


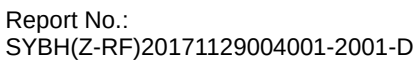


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0



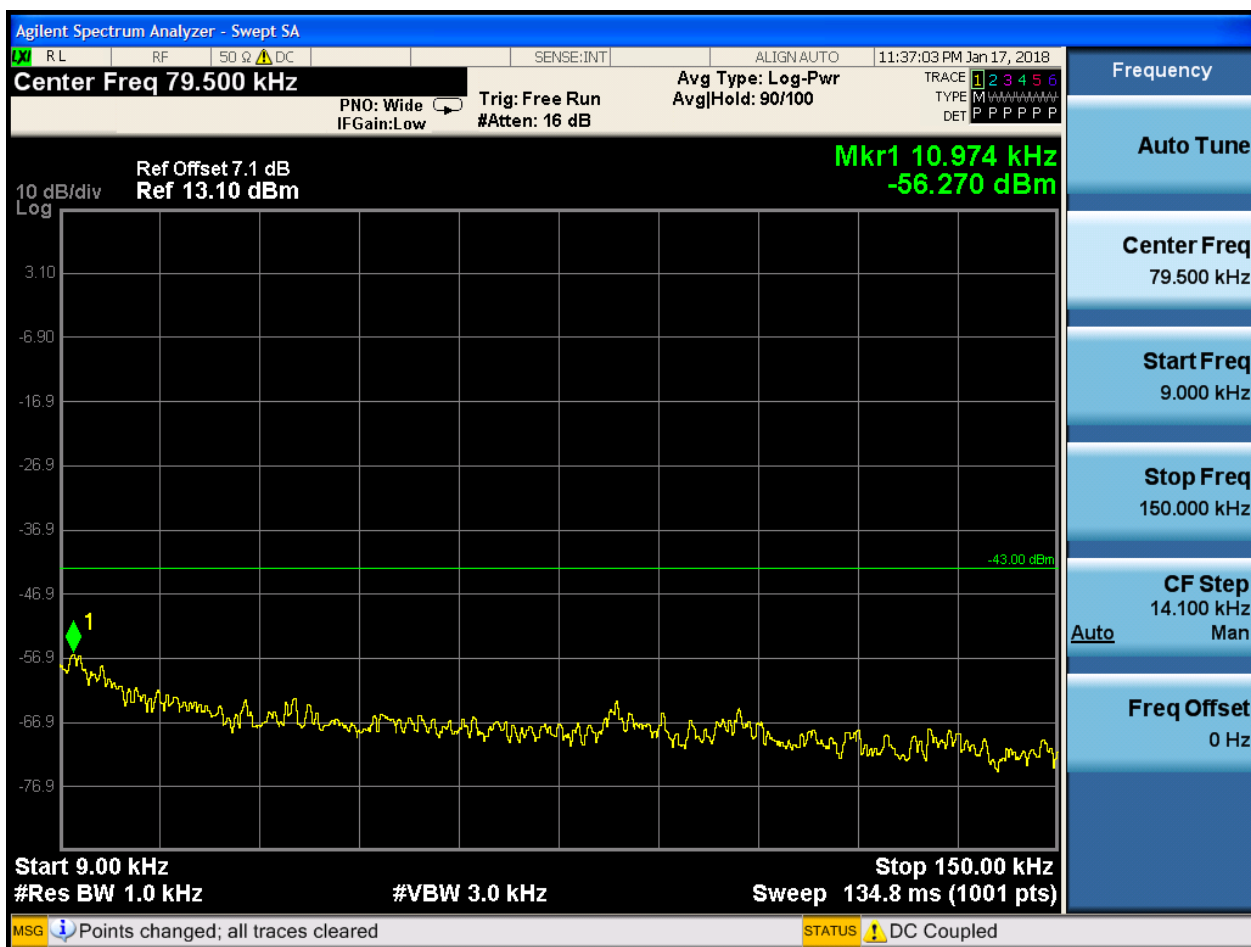


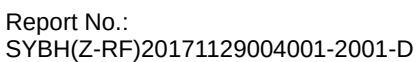


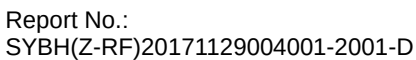
6.1.1.2.5 Test Bandwidth = 15

6.1.1.2.5.1 Test Channel = LCH

6.1.1.2.5.1.1 Test RB = RB1#0

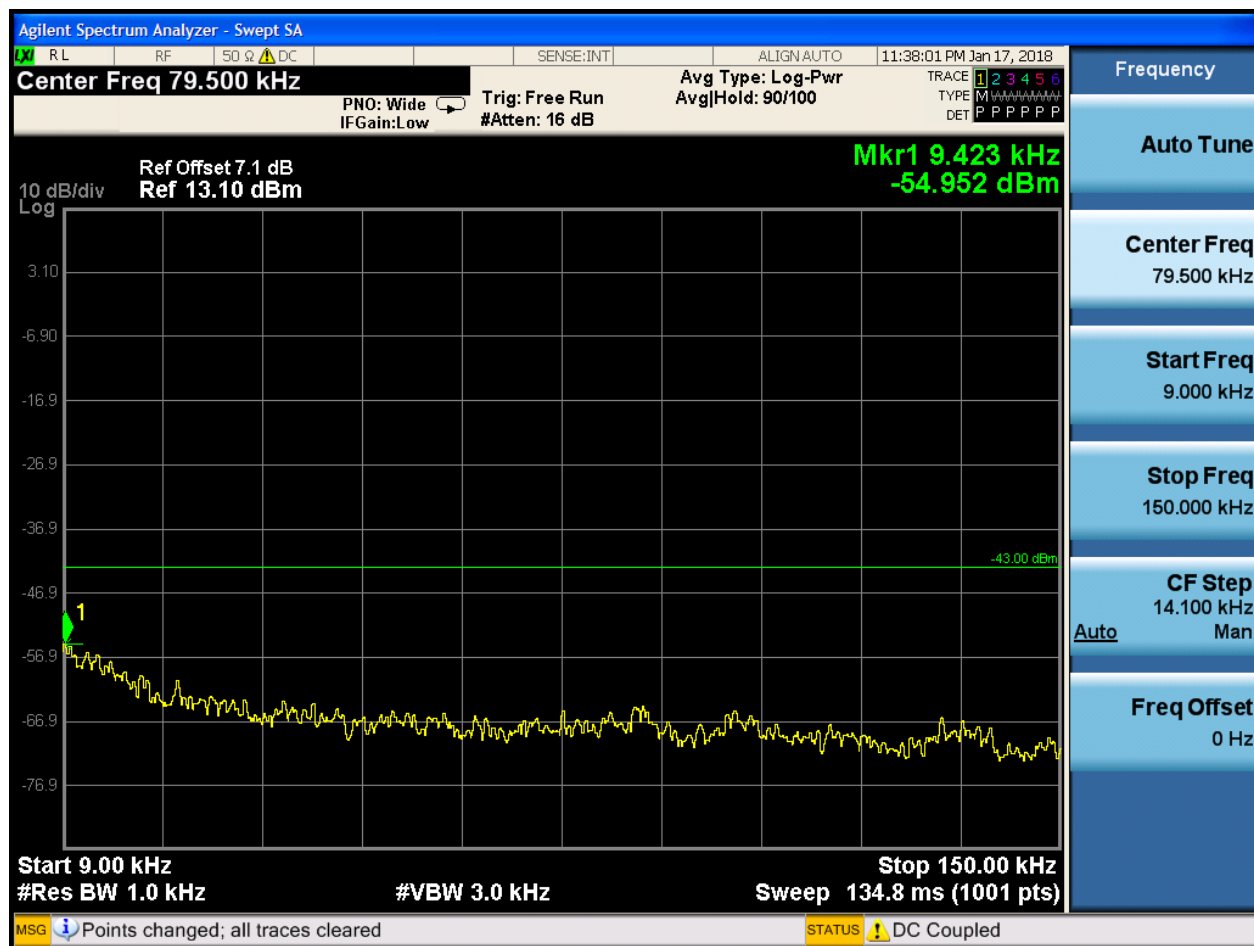


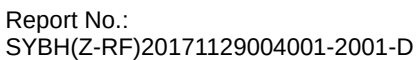


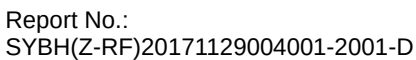


6.1.1.2.5.2 Test Channel = MCH

6.1.1.2.5.2.1 Test RB = RB1#0

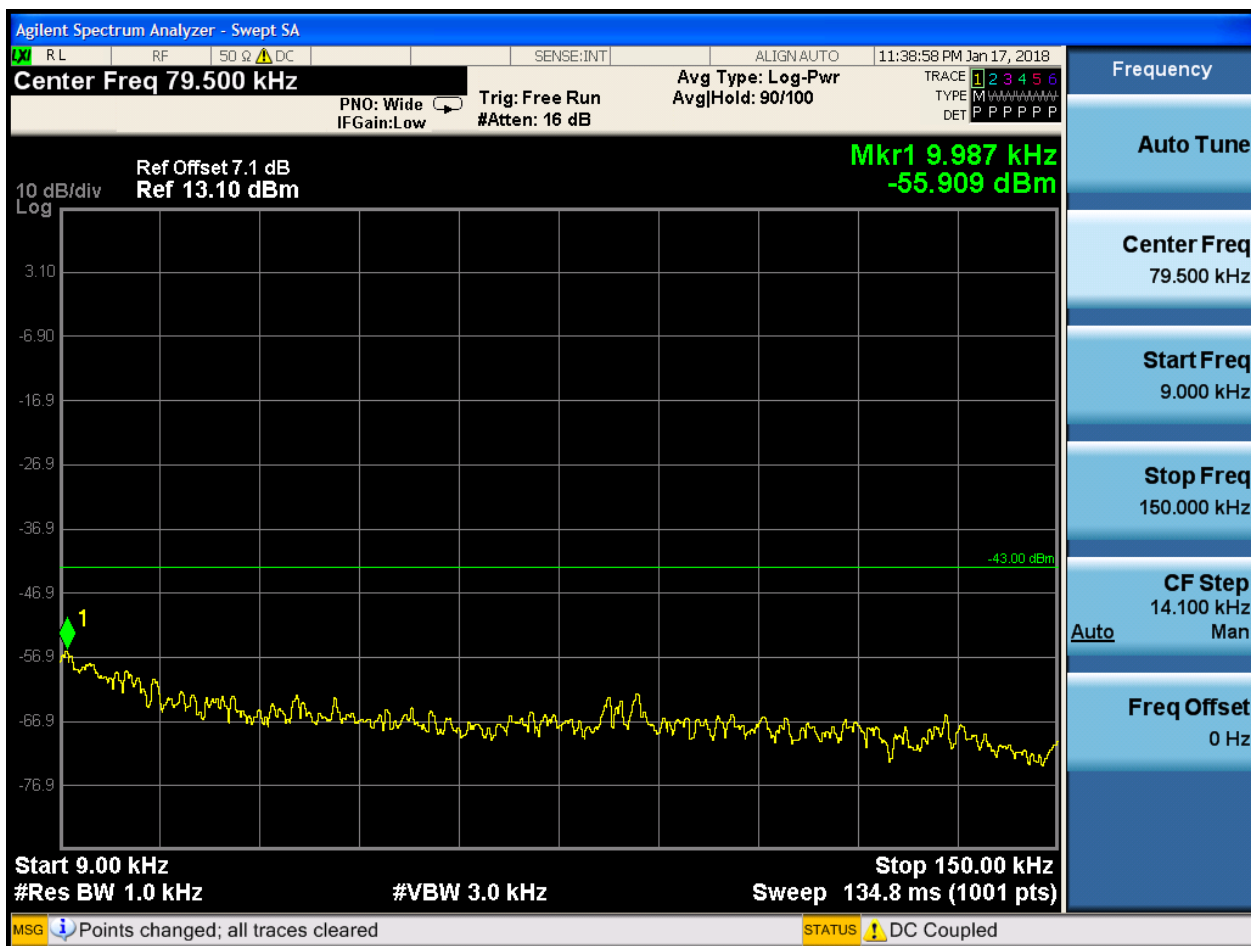


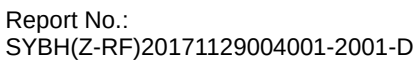


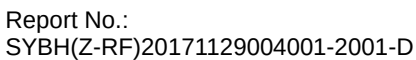


6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0



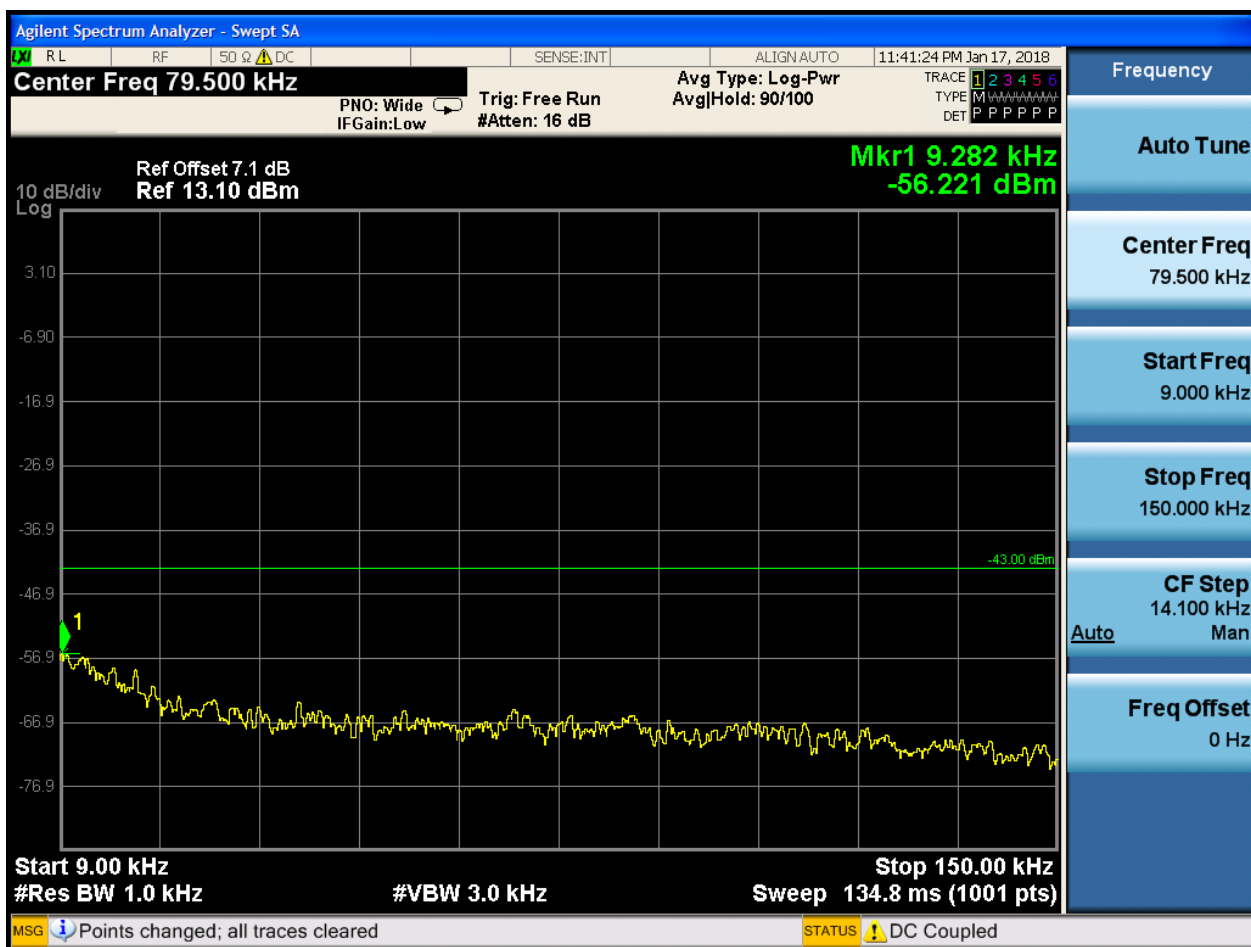


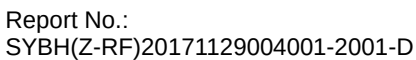


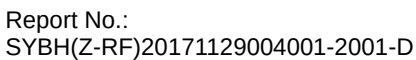
6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0

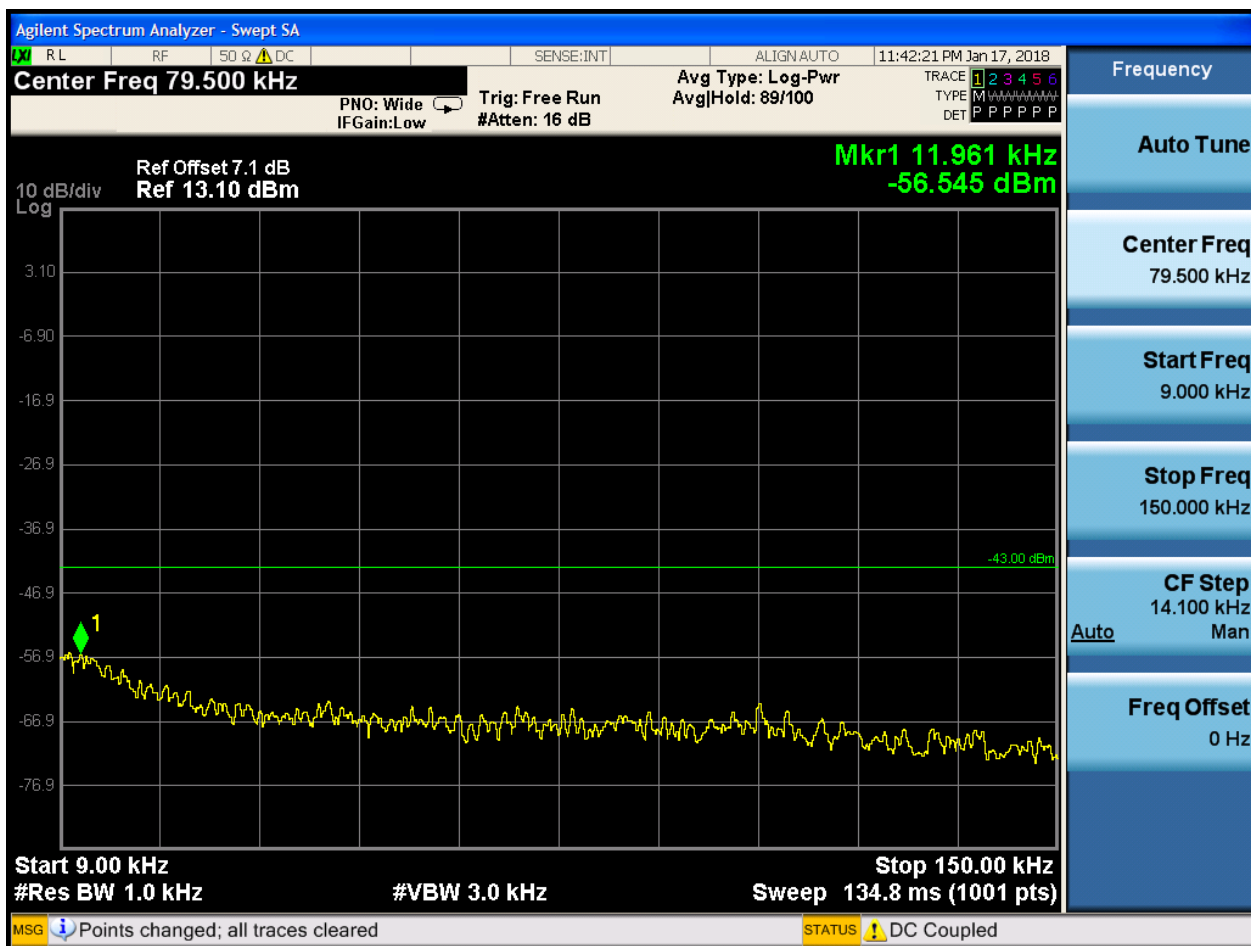


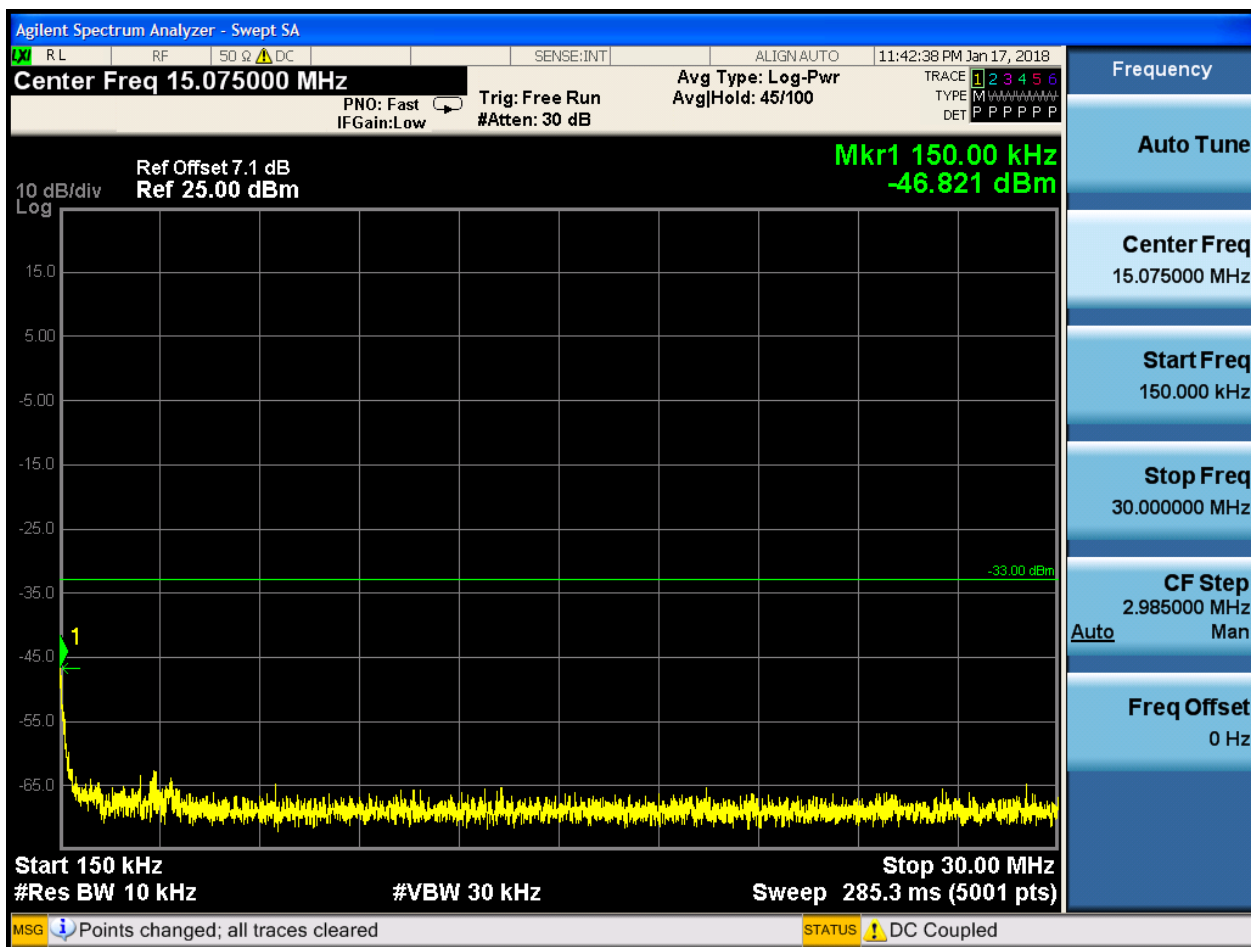


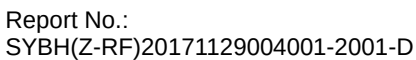


6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0

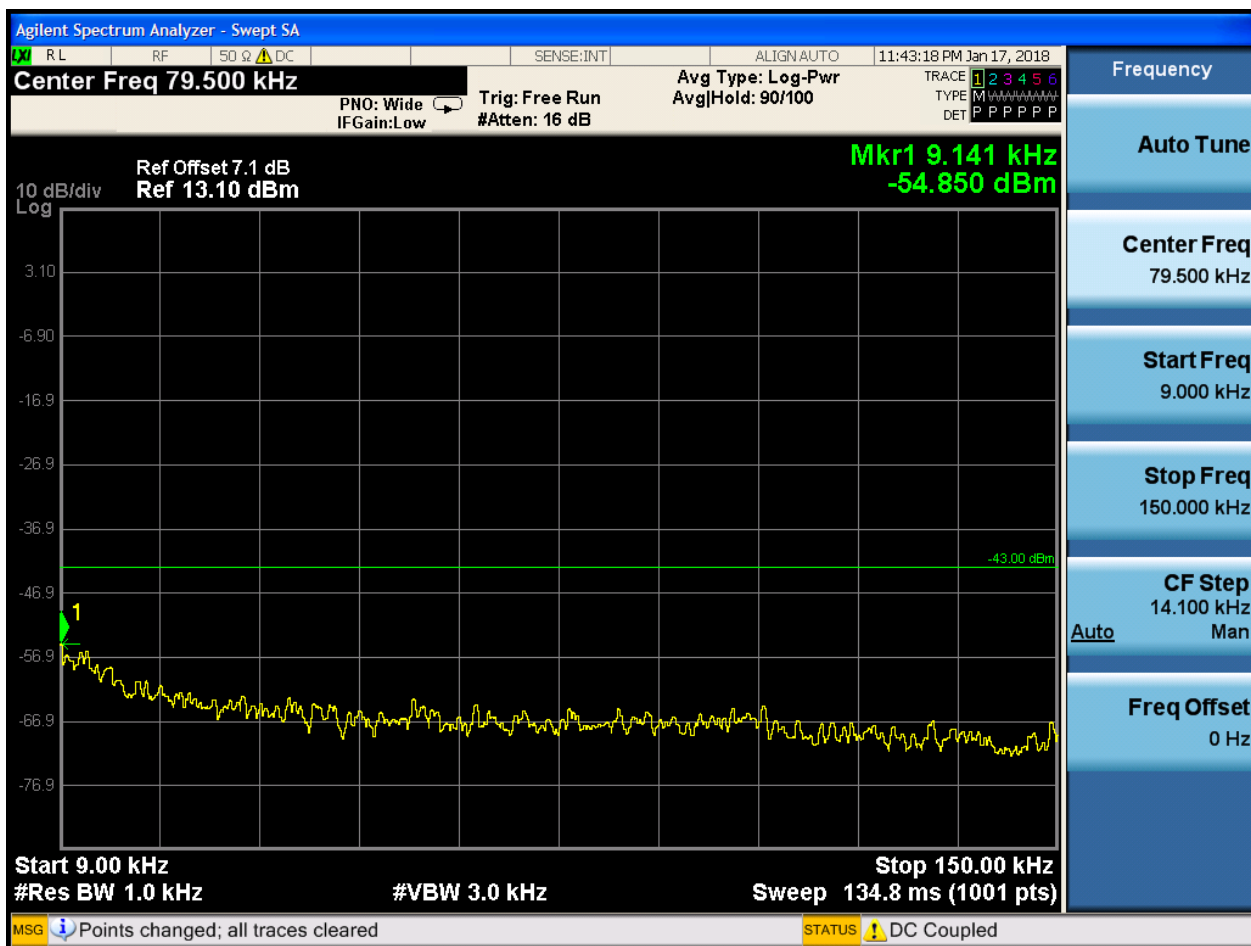


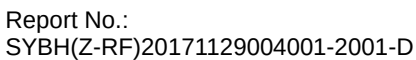


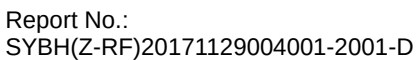


6.1.1.2.6.3 Test Channel = HCH

6.1.1.2.6.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

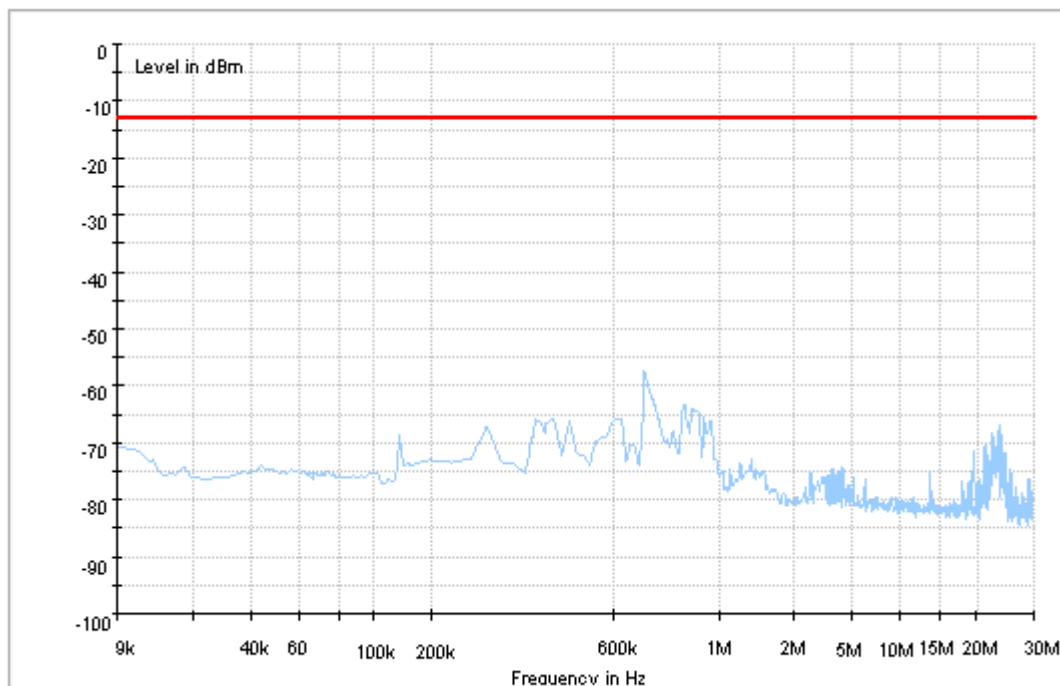
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

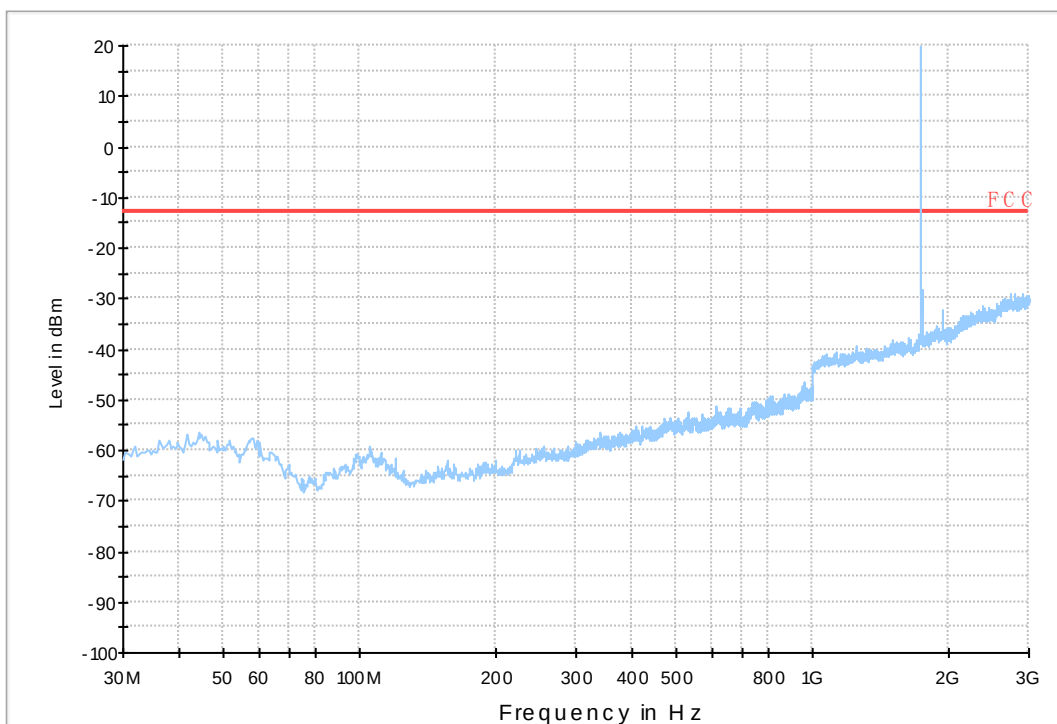
7.1 For LTE

7.1.1 Test Band = BAND4_ANT1

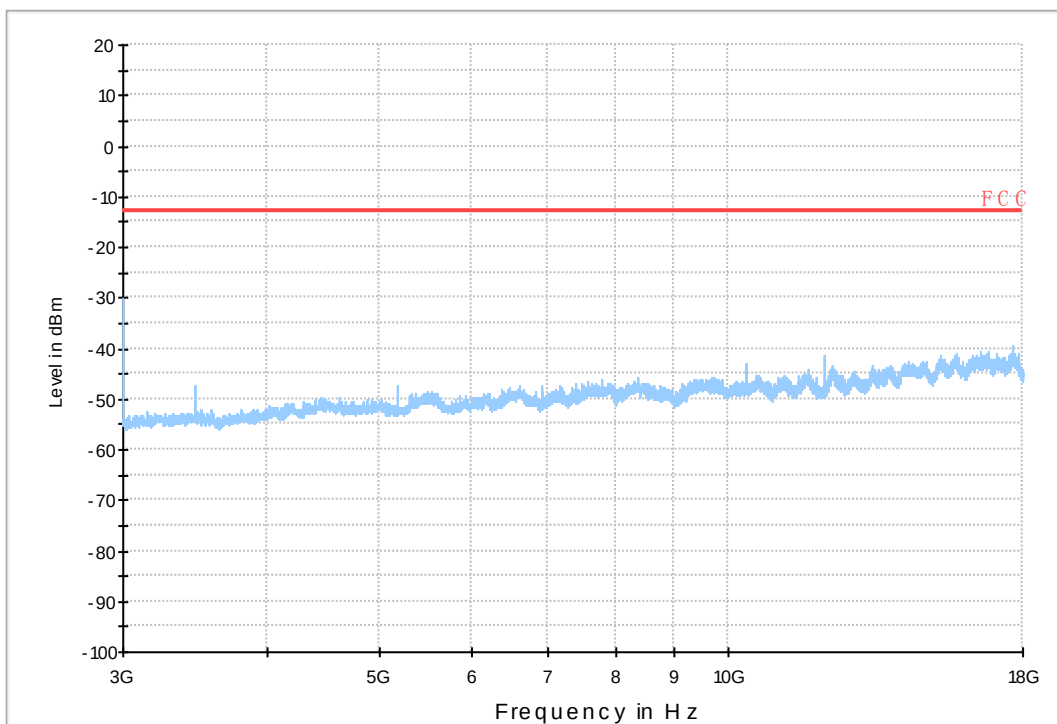
7.1.1.1 Test Bandwidth = 1.4



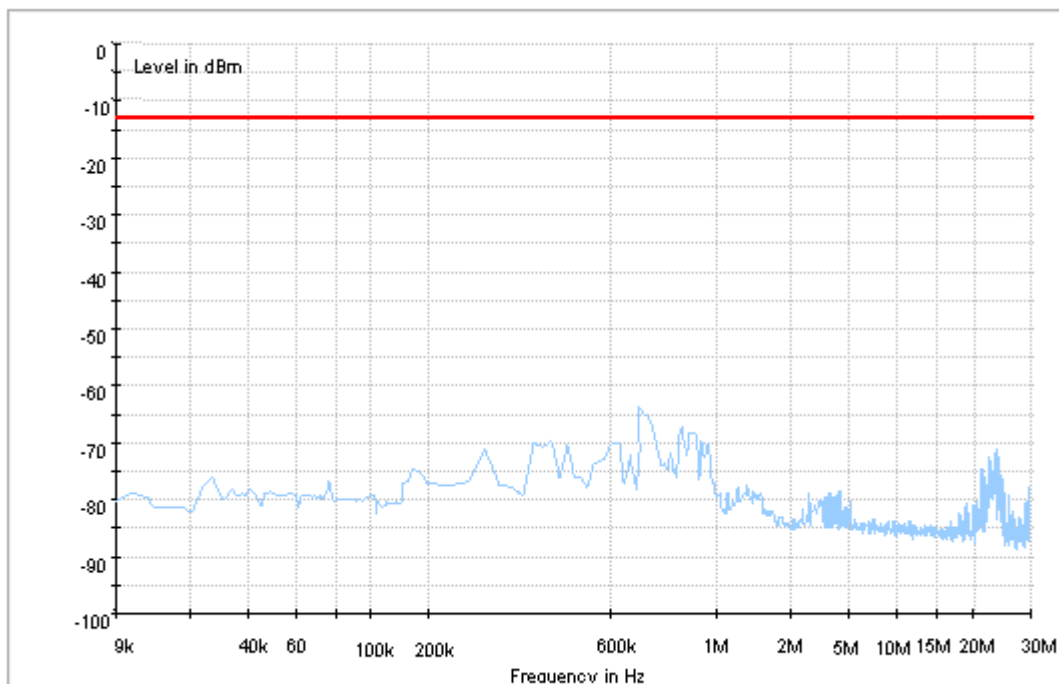
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



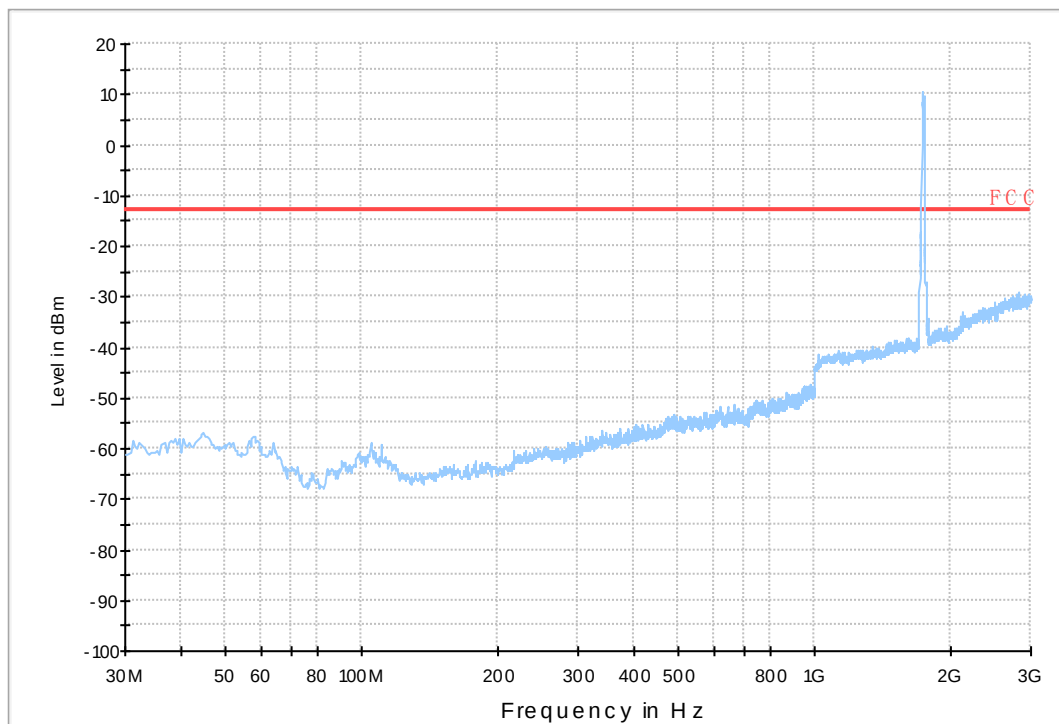
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



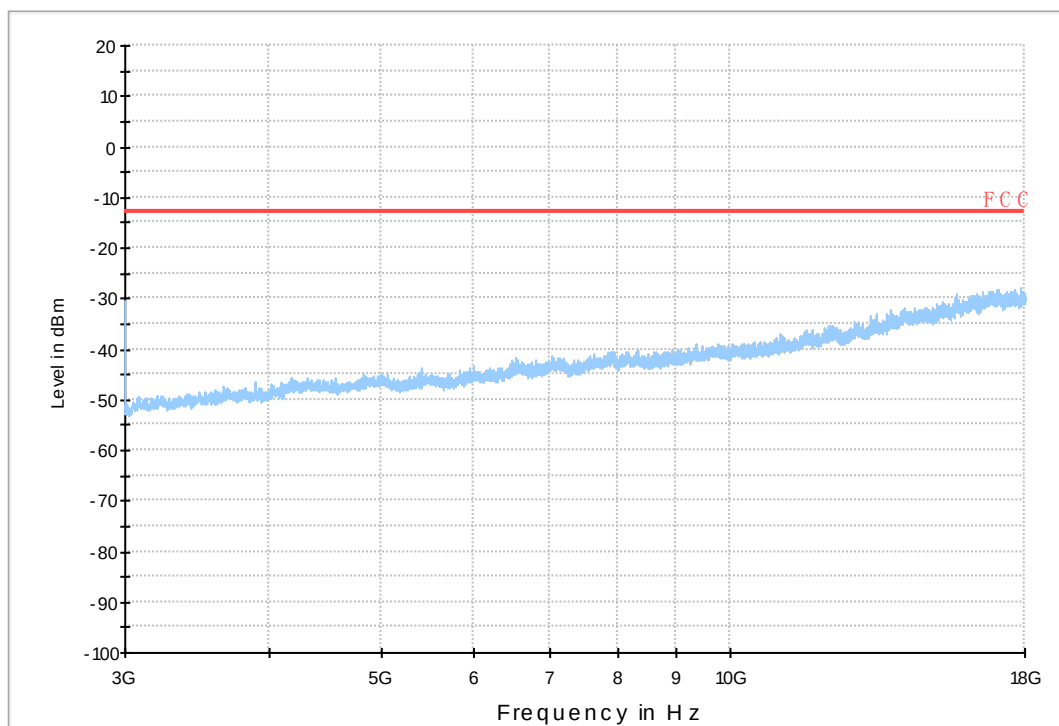
7.1.1.1 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

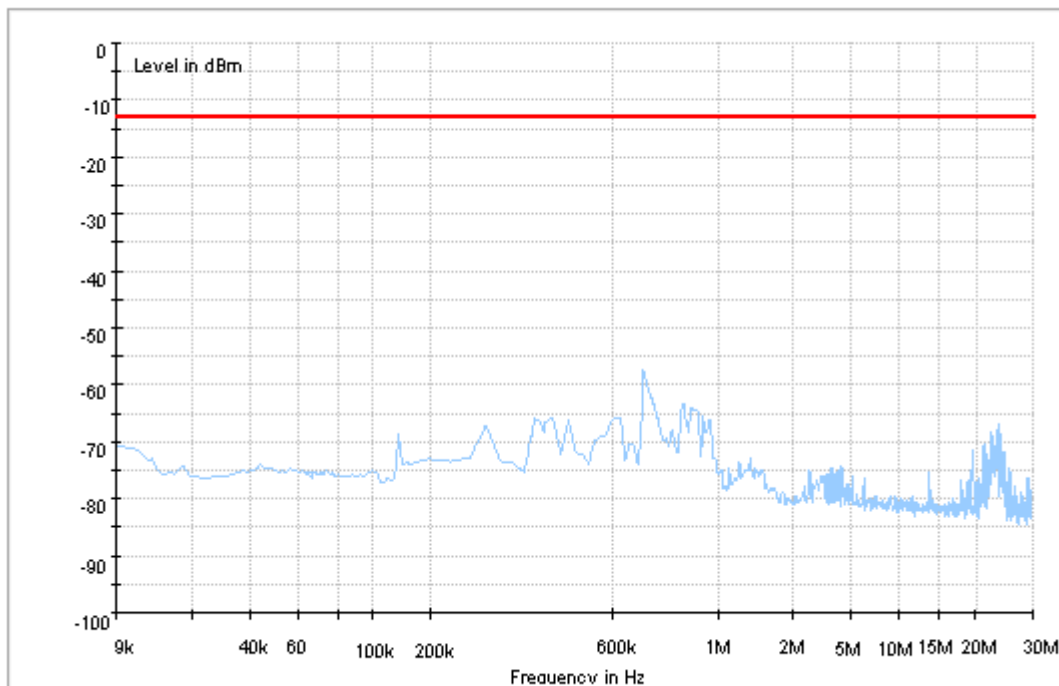


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

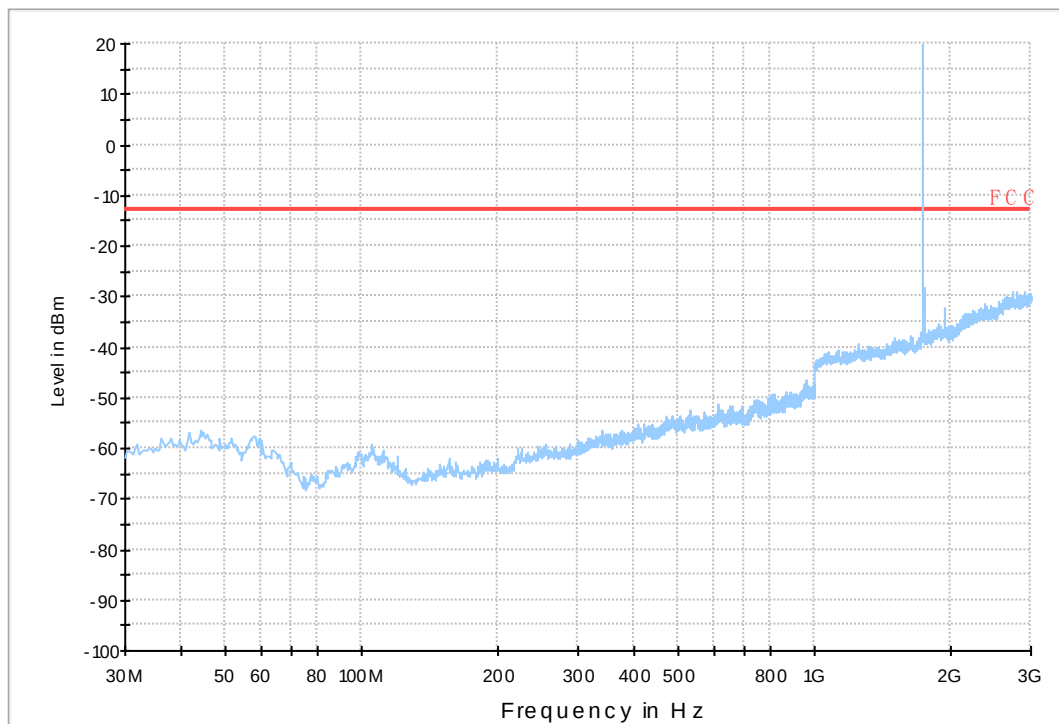


7.1.2 Test Band = BAND4_ANT2

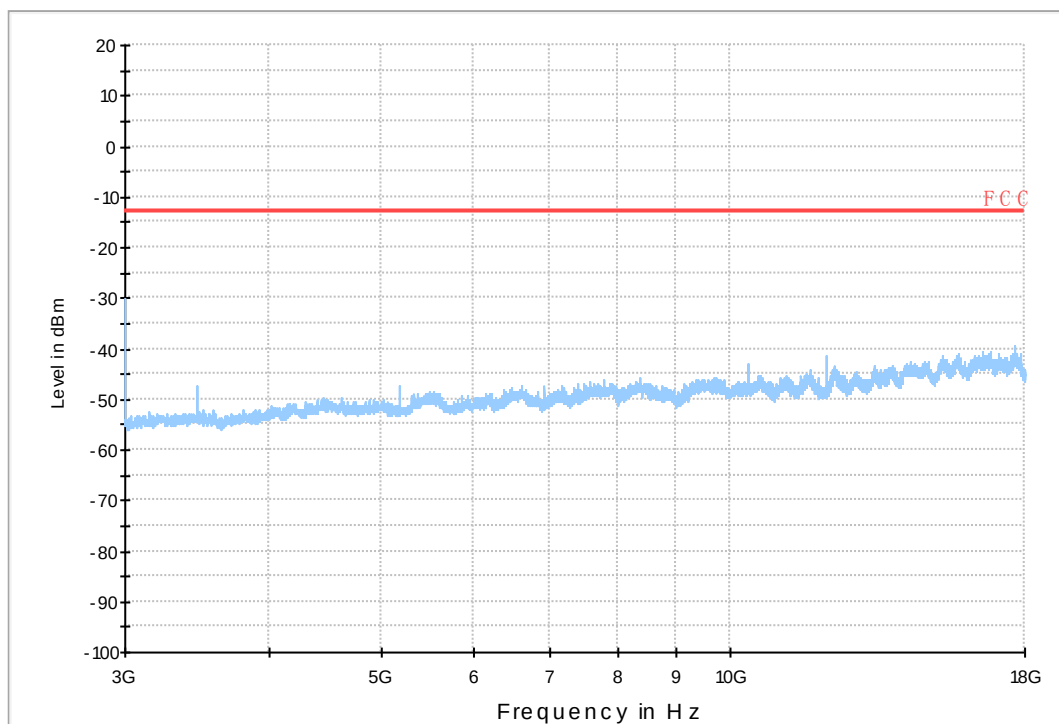
7.1.2.1 Test Bandwidth = 1.4



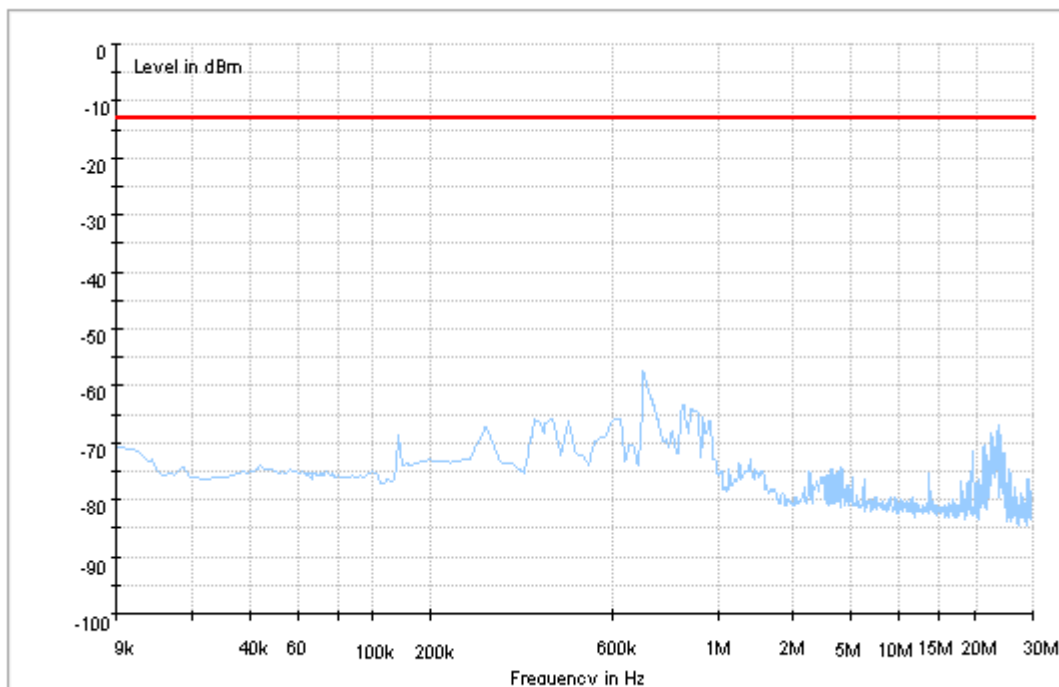
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



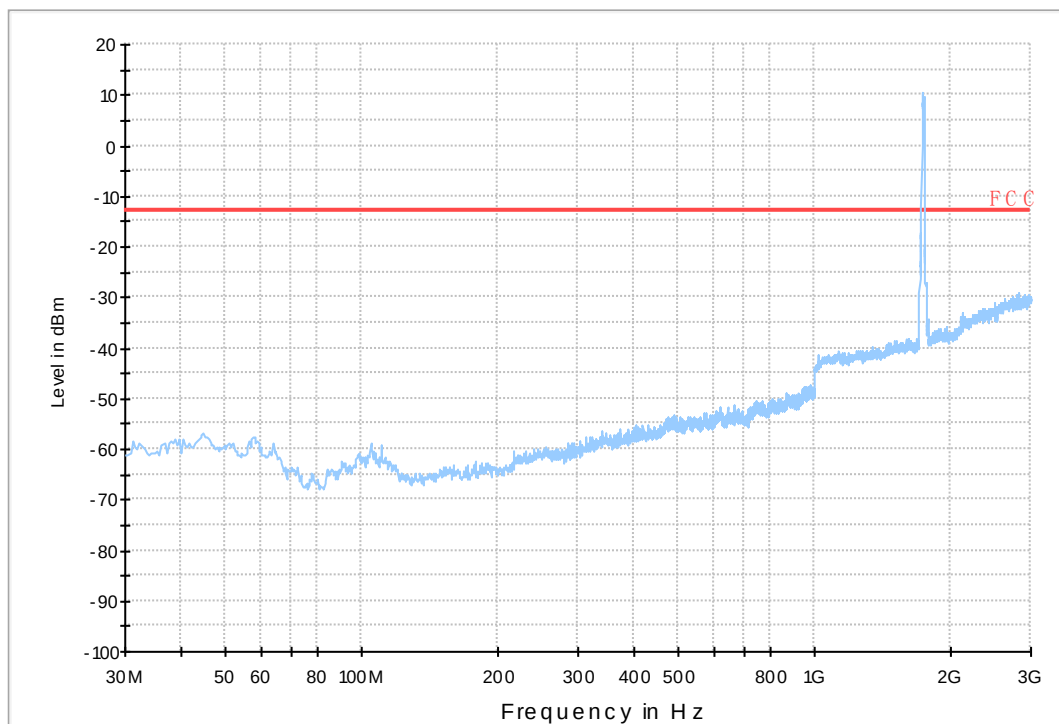
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



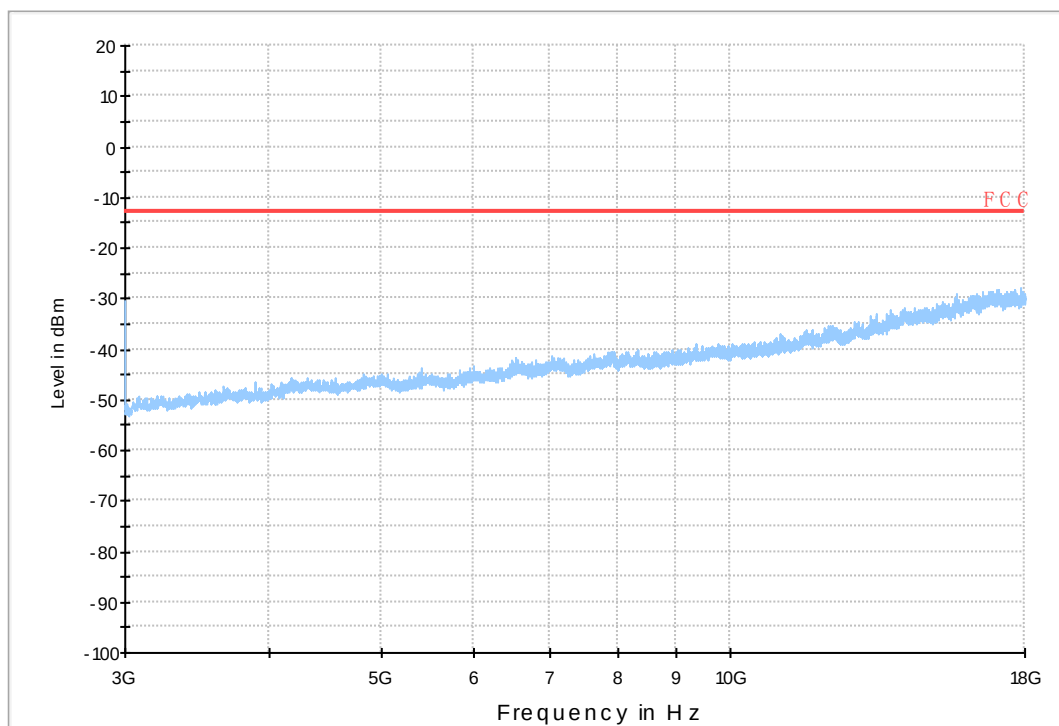
7.1.1.3 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND4	LTE/TM1	1.4	LCH	TN	VL	-10.23	-0.00598	PASS
					VN	10.39	0.00607	PASS
					VH	1.22	0.00071	PASS
			MCH	TN	VL	-0.49	-0.00028	PASS
					VN	-2.62	-0.00151	PASS
					VH	-2.37	-0.00137	PASS
			HCH	TN	VL	1.34	0.00076	PASS
					VN	-0.63	-0.00036	PASS
					VH	-1.80	-0.00103	PASS
		3	LCH	TN	VL	4.11	0.0024	PASS
					VN	3.45	0.00202	PASS
					VH	1.43	0.00084	PASS
			MCH	TN	VL	0.77	0.00044	PASS
					VN	-2.45	-0.00141	PASS
					VH	1.22	0.0007	PASS
			HCH	TN	VL	-3.92	-0.00224	PASS
					VN	-5.81	-0.00331	PASS
					VH	-3.60	-0.00205	PASS
		5	LCH	TN	VL	3.86	0.00225	PASS
					VN	-0.73	-0.00043	PASS
					VH	-0.44	-0.00026	PASS
			MCH	TN	VL	-6.64	-0.00383	PASS
					VN	-18.05	-0.01042	PASS
					VH	0.29	0.00017	PASS
			HCH	TN	VL	-3.76	-0.00215	PASS
					VN	-2.82	-0.00161	PASS
					VH	-3.96	-0.00226	PASS
		10	LCH	TN	VL	1.03	0.0006	PASS
					VN	0.97	0.00057	PASS
					VH	-2.56	-0.00149	PASS
			MCH	TN	VL	-1.23	-0.00071	PASS
					VN	0.89	0.00051	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VH	0.89	0.00051	PASS
					VL	-0.99	-0.00057	PASS
					VN	-1.09	-0.00062	PASS
					VH	2.10	0.0012	PASS
		15	LCH	TN	VL	2.70	0.00157	PASS
					VN	-1.63	-0.00095	PASS
					VH	-0.54	-0.00031	PASS
			MCH	TN	VL	-0.59	-0.00034	PASS
					VN	5.51	0.00318	PASS
					VH	4.19	0.00242	PASS
			HCH	TN	VL	4.59	0.00263	PASS
					VN	3.13	0.00179	PASS
					VH	1.03	0.00059	PASS
		20	LCH	TN	VL	-13.45	-0.00782	PASS
					VN	-13.25	-0.0077	PASS
					VH	-10.66	-0.0062	PASS
			MCH	TN	VL	-6.07	-0.0035	PASS
					VN	0.74	0.00043	PASS
					VH	-5.49	-0.00317	PASS
			HCH	TN	VL	-2.33	-0.00134	PASS
					VN	-3.93	-0.00225	PASS
					VH	-1.07	-0.00061	PASS
	LTE/TM2	1.4	LCH	TN	VL	3.20	0.00187	PASS
					VN	-5.71	-0.00334	PASS
					VH	19.44	0.01136	PASS
			MCH	TN	VL	1.57	0.00091	PASS
					VN	0.77	0.00044	PASS
					VH	2.25	0.0013	PASS
			HCH	TN	VL	-1.82	-0.00104	PASS
					VN	4.73	0.0027	PASS
					VH	-8.21	-0.00468	PASS
		3	LCH	TN	VL	0.00	0	PASS
					VN	4.68	0.00273	PASS
					VH	-1.56	-0.00091	PASS
			MCH	TN	VL	-5.55	-0.0032	PASS
					VN	-6.08	-0.00351	PASS
					VH	-1.04	-0.0006	PASS
			HCH	TN	VL	-2.90	-0.00165	PASS
					VN	-1.12	-0.00064	PASS
					VH	-1.12	-0.00064	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	-6.44	-0.00367	PASS
		5	LCH	TN	VL	6.25	0.00365	PASS
					VN	0.86	0.0005	PASS
					VH	1.99	0.00116	PASS
			MCH	TN	VL	-1.24	-0.00072	PASS
					VN	-6.11	-0.00353	PASS
					VH	-5.11	-0.00295	PASS
			HCH	TN	VL	-2.56	-0.00146	PASS
					VN	-4.58	-0.00261	PASS
					VH	-2.62	-0.0015	PASS
		10	LCH	TN	VL	0.86	0.0005	PASS
					VN	3.20	0.00187	PASS
					VH	0.37	0.00022	PASS
			MCH	TN	VL	3.71	0.00214	PASS
					VN	0.69	0.0004	PASS
					VH	0.51	0.00029	PASS
			HCH	TN	VL	1.03	0.00059	PASS
					VN	-0.03	-0.00002	PASS
					VH	1.54	0.00088	PASS
		15	LCH	TN	VL	-0.60	-0.00035	PASS
					VN	-2.09	-0.00122	PASS
					VH	0.13	0.00008	PASS
			MCH	TN	VL	3.86	0.00223	PASS
					VN	0.41	0.00024	PASS
					VH	0.99	0.00057	PASS
			HCH	TN	VL	-1.65	-0.00094	PASS
					VN	1.95	0.00112	PASS
					VH	0.96	0.00055	PASS
		20	LCH	TN	VL	-2.75	-0.0016	PASS
					VN	-8.84	-0.00514	PASS
					VH	7.60	0.00442	PASS
			MCH	TN	VL	50.21	0.02898	PASS
					VN	32.63	0.01883	PASS
					VH	38.57	0.02226	PASS
			HCH	TN	VL	6.45	0.0037	PASS
					VN	-0.34	-0.00019	PASS
					VH	-5.88	-0.00337	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND4	LTE/TM1	1.4	LCH	VN	-30	9.91	-0.00598	PASS
					-20	36.46	0.00607	PASS
					-10	-17.08	0.00071	PASS
					0	-4.59	-0.00028	PASS
					10	-5.41	-0.00151	PASS
					20	-13.89	-0.00137	PASS
					30	-1.24	0.00076	PASS
					40	-10.64	-0.00036	PASS
					50	-13.95	-0.00103	PASS
			MCH	VN	-30	-0.34	0.0024	PASS
					-20	-0.33	0.00202	PASS
					-10	0.44	0.00084	PASS
					0	-0.26	0.00044	PASS
					10	-1.53	-0.00141	PASS
					20	-1.63	0.0007	PASS
					30	-0.66	-0.00224	PASS
					40	0.57	-0.00331	PASS
					50	-0.74	-0.00205	PASS
			HCH	VN	-30	-9.40	0.00225	PASS
					-20	-11.77	-0.00043	PASS
					-10	-5.81	-0.00026	PASS
					0	-2.56	-0.00383	PASS
					10	0.59	-0.01042	PASS
					20	-0.37	0.00017	PASS
					30	-8.18	-0.00215	PASS
					40	-0.92	-0.00161	PASS
					50	-0.63	-0.00226	PASS
		3	LCH	VN	-30	0.80	0.0006	PASS
					-20	0.86	0.00057	PASS
					-10	-0.73	-0.00149	PASS
					0	1.93	-0.00071	PASS
					10	1.93	0.00051	PASS
					20	1.26	0.00051	PASS
					30	0.01	-0.00057	PASS
					40	4.22	-0.00062	PASS
					50	-0.86	0.0012	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	-30	6.45	0.00157	PASS
					-20	16.94	-0.00095	PASS
					-10	-1.59	-0.00031	PASS
					0	0.60	-0.00034	PASS
					10	0.83	0.00318	PASS
					20	10.19	0.00242	PASS
					30	0.50	0.00263	PASS
					40	3.59	0.00179	PASS
					50	1.30	0.00059	PASS
			HCH	VN	-30	-4.68	-0.00782	PASS
					-20	-6.22	-0.0077	PASS
					-10	-0.30	-0.0062	PASS
					0	-4.25	-0.0035	PASS
					10	-7.05	0.00043	PASS
					20	-4.06	-0.00317	PASS
					30	-5.01	-0.00134	PASS
					40	-2.80	-0.00225	PASS
					50	-6.38	-0.00061	PASS
		5	LCH	VN	-30	2.05	0.00187	PASS
					-20	0.03	-0.00334	PASS
					-10	1.27	0.01136	PASS
					0	1.69	0.00091	PASS
					10	0.40	0.00044	PASS
					20	-2.05	0.0013	PASS
					30	3.28	-0.00104	PASS
					40	-0.97	0.0027	PASS
					50	-1.89	-0.00468	PASS
			MCH	VN	-30	12.25	0	PASS
					-20	13.75	0.00273	PASS
					-10	34.66	-0.00091	PASS
					0	43.13	-0.0032	PASS
					10	82.35	-0.00351	PASS
					20	-0.06	-0.0006	PASS
					30	41.40	-0.00165	PASS
					40	2.12	-0.00064	PASS
					50	30.64	-0.00367	PASS
			HCH	VN	-30	-5.97	0.00365	PASS
					-20	-2.17	0.0005	PASS
					-10	-6.97	0.00116	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-4.99	-0.00072	PASS
					10	-3.65	-0.00353	PASS
					20	-0.24	-0.00295	PASS
					30	-5.04	-0.00146	PASS
					40	-4.98	-0.00261	PASS
					50	-4.02	-0.0015	PASS
			LCH	VN	-30	1.34	0.0005	PASS
					-20	1.89	0.00187	PASS
					-10	0.86	0.00022	PASS
					0	-0.94	0.00214	PASS
					10	0.14	0.0004	PASS
					20	0.54	0.00029	PASS
					30	-0.01	0.00059	PASS
					40	-0.86	-0.00002	PASS
					50	-0.06	0.00088	PASS
			MCH	VN	-30	-0.72	-0.00035	PASS
					-20	-9.43	-0.00122	PASS
					-10	-0.19	0.00008	PASS
					0	-1.32	0.00223	PASS
					10	-3.56	0.00024	PASS
					20	-8.18	0.00057	PASS
					30	-2.07	-0.00094	PASS
					40	-7.54	0.00112	PASS
					50	-6.81	0.00055	PASS
			HCH	VN	-30	-0.96	-0.0016	PASS
					-20	-0.54	-0.00514	PASS
					-10	1.80	0.00442	PASS
					0	-0.17	0.02898	PASS
					10	-0.04	0.01883	PASS
					20	-1.62	0.02226	PASS
					30	0.07	0.0037	PASS
					40	-0.46	-0.00019	PASS
					50	1.62	-0.00337	PASS
		15	LCH	VN	-30	-1.39	-0.00081	PASS
					-20	1.96	-0.00598	PASS
					-10	3.40	0.00607	PASS
					0	0.09	0.00071	PASS
					10	-0.62	-0.00028	PASS
					20	4.41	-0.00151	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-1.30	-0.00137	PASS
					40	3.66	0.00076	PASS
					50	2.86	-0.00036	PASS
			MCH	VN	-30	2.80	-0.00103	PASS
					-20	7.71	0.0024	PASS
					-10	14.91	0.00202	PASS
					0	6.88	0.00084	PASS
					10	25.46	0.00044	PASS
					20	7.67	-0.00141	PASS
					30	4.71	0.0007	PASS
					40	-0.56	-0.00224	PASS
					50	10.80	-0.00331	PASS
			HCH	VN	-30	0.87	-0.00205	PASS
					-20	7.62	0.00225	PASS
					-10	2.86	-0.00043	PASS
					0	3.75	-0.00026	PASS
					10	2.37	-0.00383	PASS
					20	2.56	-0.01042	PASS
					30	-2.59	0.00017	PASS
					40	0.20	-0.00215	PASS
					50	-1.22	-0.00161	PASS
		20	LCH	VN	-30	-5.69	-0.00226	PASS
					-20	-8.60	0.0006	PASS
					-10	-5.82	0.00057	PASS
					0	-4.51	-0.00149	PASS
					10	-4.25	-0.00071	PASS
					20	-6.58	0.00051	PASS
					30	-6.11	0.00051	PASS
					40	-4.18	-0.00057	PASS
					50	-4.23	-0.00062	PASS
			MCH	VN	-30	17.18	0.0012	PASS
					-20	7.32	0.00157	PASS
					-10	21.14	-0.00095	PASS
					0	5.29	-0.00031	PASS
					10	33.45	-0.00034	PASS
					20	13.20	0.00318	PASS
					30	12.99	0.00242	PASS
					40	9.56	0.00263	PASS
					50	31.96	0.00179	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	-30	-0.37	0.00059	PASS
					-20	-1.37	-0.00782	PASS
					-10	3.22	-0.0077	PASS
					0	1.34	-0.0062	PASS
					10	0.60	-0.0035	PASS
					20	5.94	0.00043	PASS
					30	0.04	-0.00317	PASS
					40	0.19	-0.00134	PASS
					50	-2.07	-0.00225	PASS
	LTE/TM2	1.4	LCH	VN	-30	25.43	-0.00061	PASS
					-20	27.65	0.00187	PASS
					-10	29.03	-0.00334	PASS
					0	-0.03	0.01136	PASS
					10	6.79	0.00091	PASS
					20	29.30	0.00044	PASS
					30	28.75	0.0013	PASS
					40	17.38	-0.00104	PASS
					50	5.61	0.0027	PASS
			MCH	VN	-30	-0.69	-0.00468	PASS
					-20	0.36	0	PASS
					-10	0.97	0.00273	PASS
					0	-0.47	-0.00091	PASS
					10	0.86	-0.0032	PASS
					20	-0.84	-0.00351	PASS
					30	-0.50	-0.0006	PASS
					40	0.72	-0.00165	PASS
					50	0.24	-0.00064	PASS
			HCH	VN	-30	-0.33	-0.00367	PASS
					-20	-0.16	0.00365	PASS
					-10	-2.23	0.0005	PASS
					0	0.43	0.00116	PASS
					10	-1.79	-0.00072	PASS
					20	-2.79	-0.00353	PASS
					30	-4.12	-0.00295	PASS
					40	0.66	-0.00146	PASS
					50	-3.88	-0.00261	PASS
		3	LCH	VN	-30	2.92	-0.0015	PASS
					-20	3.22	0.0005	PASS
					-10	5.28	0.00187	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	4.28	0.00022	PASS
					10	0.83	0.00214	PASS
					20	2.53	0.0004	PASS
					30	3.33	0.00029	PASS
					40	0.57	0.00059	PASS
					50	0.46	-0.00002	PASS
			MCH	VN	-30	-0.11	0.00088	PASS
					-20	0.26	-0.00035	PASS
					-10	-0.54	-0.00122	PASS
					0	0.20	0.00008	PASS
					10	-0.70	0.00223	PASS
					20	-0.10	0.00024	PASS
					30	0.19	0.00057	PASS
					40	-0.57	-0.00094	PASS
					50	-0.49	0.00112	PASS
			HCH	VN	-30	-2.92	0.00055	PASS
					-20	-7.25	-0.0016	PASS
					-10	-0.69	-0.00514	PASS
					0	-2.92	0.00442	PASS
					10	-1.27	0.02898	PASS
					20	-1.76	0.01883	PASS
					30	-1.85	0.02226	PASS
					40	-8.10	0.0037	PASS
					50	-0.44	-0.00019	PASS
		5	LCH	VN	-30	0.51	-0.00337	PASS
					-20	-0.51	-0.0003	PASS
					-10	-0.92	-0.00598	PASS
					0	1.37	0.00607	PASS
					10	5.02	0.00071	PASS
					20	2.90	-0.00028	PASS
					30	4.38	-0.00151	PASS
					40	1.23	-0.00137	PASS
					50	-0.20	0.00076	PASS
			MCH	VN	-30	0.00	-0.00036	PASS
					-20	-0.84	-0.00103	PASS
					-10	-0.54	0.0024	PASS
					0	-0.60	0.00202	PASS
					10	-0.30	0.00084	PASS
					20	-6.62	0.00044	PASS